

# Flight Plan

## STS-111/UF2

(STS-111 FRR Cycle Trajectory)

Mission Operations Directorate  
Operations Division

For the latest working copy of the Flight Plan, visit  
<https://mod.jsc.nasa.gov/do4/flightplan/fp.cfm?id=111>

Final  
April 25, 2002

EVENT	MET	DATE	CDT	GMT
Launch	00/00:00	05/31/02	18:16	151/23:16
NC1	00/03:36	05/31/02	21:52	152/02:52
Ti	01/16:10	06/02/02	10:26	153/15:26
ISS Docking	01/18:31	06/02/02	12:47	153/17:47
MPLM Install on ISS	02/16:50	06/03/02	11:06	154/16:06
EVA 1 (6.0 hrs)	03/17:45	06/04/02	12:01	155/17:01
EVA 2 (6.5 hrs)	05/17:45	06/06/02	12:01	157/17:01
EVA 3 (6.5 hrs)	07/17:45	06/08/02	12:01	159/17:01
MPLM Berth in STS	08/22:35	06/09/02	16:51	160/21:51
Undock	09/18:00	06/10/02	12:16	161/17:16
Landing	11/19:04	06/12/02	13:20	163/18:20

National Aeronautics and  
Space Administration

Lyndon B. Johnson Space Center  
Houston, Texas



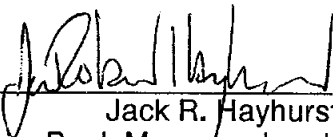
Verify this is the correct version for the pending operation (training, simulation, or flight).  
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MISSION OPERATIONS DIRECTORATE


**STS-111 FLIGHT PLAN**

FINAL  
April 25, 2002

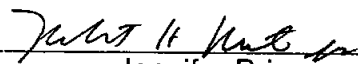
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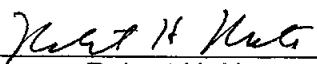
  
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Jack R. Hayhurst  
Book Manager, Lead FAO

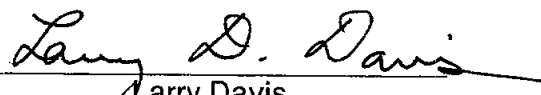
  
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Lead RPE	DO4/S. Mays	281-483-7475

FLIGHT PLAN  
STS-111

**LIST OF EFFECTIVE PAGES**

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STS-111 FLIGHT PLAN FABRICATED ITEMS

<u>Title</u>	<u>Ref. Page</u>	<u>Item No.</u>
DAP A, DAP B TOC	8-2	FLT PLN-1a/111/O/B
(back)	8-2	FLT PLN-1b/111/O/A
DAP A	8-3	FLT PLN-2a/111/O/A
DAP A1	8-3	FLT PLN-2b/111/O/A
A1	8-3	FLT PLN-3a/111/O/A
DAP A2	8-3	FLT PLN-3b/111/O/A
A2	8-4	FLT PLN-4a/111/O/A
DAP A3	8-4	FLT PLN-4b/111/O/A
A3	8-4	FLT PLN-5a/111/O/A
DAP A4	8-4	FLT PLN-5b/111/O/B
A4	8-5	FLT PLN-6a/111/O/A
DAP A5	8-5	FLT PLN-6b/111/O/A
A5	8-5	FLT PLN-7a/111/O/A
DAP A6	8-5	FLT PLN-7b/111/O/A
A6	8-6	FLT PLN-8a/111/O/A
DAP A7	8-6	FLT PLN-8b/111/O/A
A7	8-6	FLT PLN-9a/111/O/A
DAP A8	8-6	FLT PLN-9b/111/O/A
A8	8-7	FLT PLN-10a/111/O/A
DAP A9	8-7	FLT PLN-10b/111/O/A
A9	8-7	FLT PLN-11a/111/O/A
DAP A10	8-7	FLT PLN-11b/111/O/A
A10	8-8	FLT PLN-12a/111/O/A
DAP A11	8-8	FLT PLN-12b/111/O/A
A11	8-8	FLT PLN-13a/111/O/A
DAP A12	8-8	FLT PLN-13b/111/O/A
A12	8-9	FLT PLN-14a/111/O/A
DAP A13	8-9	FLT PLN-14b/111/O/A
A13	8-9	FLT PLN-15a/111/O/A
DAP A14	8-9	FLT PLN-15b/111/O/A
A14	8-10	FLT PLN-16a/111/O/A
DAP A15	8-10	FLT PLN-16b/111/O/A
A15	8-10	FLT PLN-17a/111/O/A
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DAP B	8-11	FLT PLN-18a/111/O/A
DAP B1	8-11	FLT PLN-18b/111/O/A
B1	8-11	FLT PLN-19a/111/O/A
DAP B2	8-11	FLT PLN-19b/111/O/A
B2	8-12	FLT PLN-20a/111/O/A
DAP B3	8-12	FLT PLN-20b/111/O/A
B3	8-12	FLT PLN-21a/111/O/A
DAP B4	8-12	FLT PLN-21b/111/O/B
B4	8-13	FLT PLN-22a/111/O/A
DAP B5	8-13	FLT PLN-22b/111/O/A
B5	8-13	FLT PLN-23a/111/O/A
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B12	8-17	FLT PLN-30a/111/O/A



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B14 .....	8-18	FLT PLN-32a/111/O/A
DAP B15 .....	8-18	FLT PLN-32b/111/O/A
B15 .....	8-18	FLT PLN-33a/111/O/A
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## INTRODUCTION

The STS-111 Flight Plan is the Flight Data File article that contains the on-orbit timeline. It does not contain the detailed timelines that are covered in the Ascent, Post Insertion, Deorbit Prep, and Entry Checklists. The detailed rendezvous and undocking timelines and procedures are contained in the Rendezvous Checklist. The detailed EVA task timelines and procedures are contained in the EVA Checklist.

This Flight Plan satisfies the mission requirements specified in the following documents:

- NSTS-07700 Vol III, Flight Definition and Requirements Document
- NSTS-17462-111, STS-111 Flight Requirements Document
- NSTS-37326, Shuttle Crew Scheduling Constraints

The timeline formats used in this Flight Plan are based on JSC-19933, Timeline Format Definitions and Standard Notes, Rev C, May 1990.

The STS-111 Flight Plan is based on a launch date of May 31, 2002 at 18:16 CDT. A late decision was made to move the launch to May 30, 2002 at 18:38 CDT, which does not allow adequate time for Flight Design and Flight Plan products to be updated. Orbiter inertial attitudes are expressed relative to a mean of 1950 (M50) reference frame.

The following SCSC Exceptions have been submitted in order to meet Category 1 objectives:

- 111-1, 111-2, 111-3

The Flight Plan and other related mission information are available on the following Space Shuttle Flight Planning web site:

<http://mod.jsc.nasa.gov/do4/flightplan/fp.cfm?id=111>

OVERVIEW TIMELINE

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## STS-111 ISS UF2 Overview Timeline 12+0+2 (3 EVAs)

MET 000/	-19	-18	-17	-16	-15	-14	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	
ISS																					PreSleep			
STS																					Ascent			
Orb Att																					Post Insert			
																					PreSleep			
																					Ascent			
																					-ZLV -XVV			
																					Launch <sup>A</sup> 000:39			
																					000:36			
FD02																								
MET 000/	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	1/0	1	2	3
ISS													PostSleep											PreSleep
STS	PreSleep											PostSleep											PreSleep	
Orb Att													PostSleep											PreSleep
																					-ZLV -XVV			
																					RMS Checkout, EMU Checkout & Rendezvous Prep			
																					^ N02			
																					^ NPC 021:02			
																					^ N03 1/01:45			
FD03																								
MET 001/	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	2/0	1	2	3
ISS													PostSleep											PreSleep
STS	PreSleep											PostSleep											PreSleep	
Orb Att													PostSleep											PreSleep
																					-ZLV -XVV			
																					RNDZ			
																					Hatch Open			
																					IELK / Handover			
																					EVA Prep			
																					BIAS -XLV +ZVV			
																					^ N02 0/18:55			
																					^ NPC 021:02			
																					^ N03 1/01:45			
FD04																								
MET 002/	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	3/0	1	2	3
ISS													PostSleep											PreSleep
STS	PreSleep											PostSleep											PreSleep	
Orb Att													PostSleep											PreSleep
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FD05																								
MET 003/	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	4/0	1	2	3
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STS	PreSleep											PostSleep											PreSleep	
Orb Att													PostSleep											PreSleep
																					-ZLV -XVV			
																					EVA Support / MPLM Transfers / ISS Crew Handover / MBS Unberth			
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																					EVA 1 - 6:00 Duration			
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																					PreSleep			
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																					PSA			
FD06																								
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STS	PreSleep											PostSleep											PreSleep	
Orb Att													PostSleep											PreSleep
																					-ZLV -XVV			
																					MPLM Transfers / ISS Crew Handover			
																					MPLM Transfer			
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																					EVA2			
																					MPLM Transfer			
																					EVA 2 Prep			
																					PreSleep			
																					BIAS -XLV +ZVV			
																					RVW			
FD07																								
MET 005/	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	6/0	1	2	3
ISS													PostSleep											PreSleep
STS	PreSleep											PostSleep											PreSleep	
Orb Att													PostSleep											PreSleep
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																					EVA 2 Exer Prep			
																					EVA 2 - 6:30 Duration			
																					PostEVA			
																					PreSleep			
																					BIAS -XLV +ZVV			
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FD08																								
MET 006/	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	7/0	1	2	3
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STS	PreSleep											PostSleep											PreSleep	
Orb Att													PostSleep											PreSleep
																					-ZLV -XVV			
																					MPLM Transfer			
																					MPLM Transfer			
																					MEAL			
																					CREW			
																					MPLM Transfer / CPA Install			
																					PreSleep			
																					BIAS -XLV +ZVV			
																					Photo/Conf			
																					MPLM Transfer			
FD09																								
MET 007/	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	8/0	1	2	3
ISS													PostSleep											PreSleep
STS	PreSleep											PostSleep											PreSleep	
Orb Att													PostSleep											PreSleep
																					-ZLV -XVV			
																					EVA 3 Prep Support / ISS Crew Handover			
																					EVA 3 Exer Prep			
																					EVA 3 - 6:30 Duration			
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FD10																								
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Orb Att													PostSleep											PreSleep
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																					PreSleep			
																					BIAS -XLV +ZVV			
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																					MDDK Xfer / Tools C/O			
																					MPLM Uninstall / MDDK Transfer			
																					PreSleep			
FD11																								
MET 009/	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	10/0	1	2	3
ISS													PostSleep											PreSleep
STS	PreSleep											PostSleep											PreSleep	
Orb Att													PostSleep											PreSleep
																					-ZLV -XVV			
																					Hatch Close			
																					Undock			
																					MEAL			
																					Off Duty			
																					PreSleep			
																					BIAS -XLV +ZVV			
																					Hatch Close			
																					Undock			
																					Flyaround / Sep			
																					-ZLV +YVV			
																					Undocking <sup>A</sup> 9/18:00			
																					Final Sep 9/19:44			
FD12																								
MET 010/	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	11/0	1	2	3
ISS																					PreSleep			
STS	PreSleep											PostSleep											PreSleep	
Orb Att													PostSleep											PreSleep
																					-ZLV +YVV			
																					FCS C/O			
																					Cabin Stow / LE Suit Ck			
																					MEAL			
																					PEEP / Off Duty			
																					PreSleep			
																					BIAS -XLV +ZVV			
FD13																								
MET 011/	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	12/0	1	2	3
ISS																					PreSleep			
STS	PreSleep											PostSleep											PreSleep	
Orb Att													PostSleep											PreSleep
																					-ZLV +YVV			
																					IMU			
																					D/O Prep			
																					ENTRY			
																					IMU			
																					-XSI / ENTRY			
																					TIG <sup>A</sup> 11/19:01			
																					KSC Landing 11/19:04			

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**SUMMARY TIMELINE AND ISS SHORT TERM PLAN**



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GMT 06/01/02  
 MET Day 000

STS-111	12	13	14	15	16	17	18	19	20	21	22	23	001/00						
CDR COCKRELL	SLEEP		FD02	POST SLEEP		OMS BURN	NC2	M-NZLV RV	PEAVOENT	RPMSRUP	RMS C/O	RMS PLB SURVEY	RPMSRDN	MAGR UNSTOW & SETUP	NPC	M-NZLV RV	MEAL	GPS OPS2 TEST	EXER CISE
PLT LOCKHART	SLEEP		POST SLEEP		OMS BURN	PS TEST 02 P	CRYO 02 SNSR CK		FILTER CLEANING	FC*	FUEL CELL MON		EXERCISE	RCS BURN	MEAL	EMU C/O (2 EMUS)	EMU PREP FOR XFER		
MS1 PERRIN	SLEEP		POST SLEEP		HTR	DOCK RING EXT		RPMSRUP	RMS C/O	RMS PLB SURVEY	RPMSRDN	PTV19 (C/L CAM)	RNDZ PGSC S/U	A/L PREP	MEAL	EMU C/O (2 EMUS)	EMU PREP FOR XFER		
MS2 CHANG-DIAZ	SLEEP		POST SLEEP - GIRA		DOCK RING EXT	PEAVOENT	PTV20 S/U (RNDZ)		EXERCISE	PTV19 (C/L CAM)	RNDZ PGSC S/U	A/L PREP	MEAL	EMU C/O (2 EMUS)	EMU PREP FOR XFER				
MS3 WHITSON	SLEEP		POST SLEEP		ERGO S/U	MD D K C K			EXERCISE			MEAL							
MS4 KORZUN	SLEEP		POST SLEEP						EXERCISE			MEAL							
MS5 TRESCHEV	SLEEP		POST SLEEP		ERGO S/U				EXERCISE			MEAL							
DAY/NIGHT	[Day/Night Cycle Bar]																		
ORBIT	9	10	11	12	13	14	15	16	17										
DAILY ORBIT	14	15	16	1	2	3	4	5	6										
TDRS	[TDRS Activity Bar]																		
ATT	-ZLV -XVV													NC2	-ZLV -XVV	NPC	-ZLV -XVV		
NOTES														*HTR ACT	*PURGE-MANUAL				

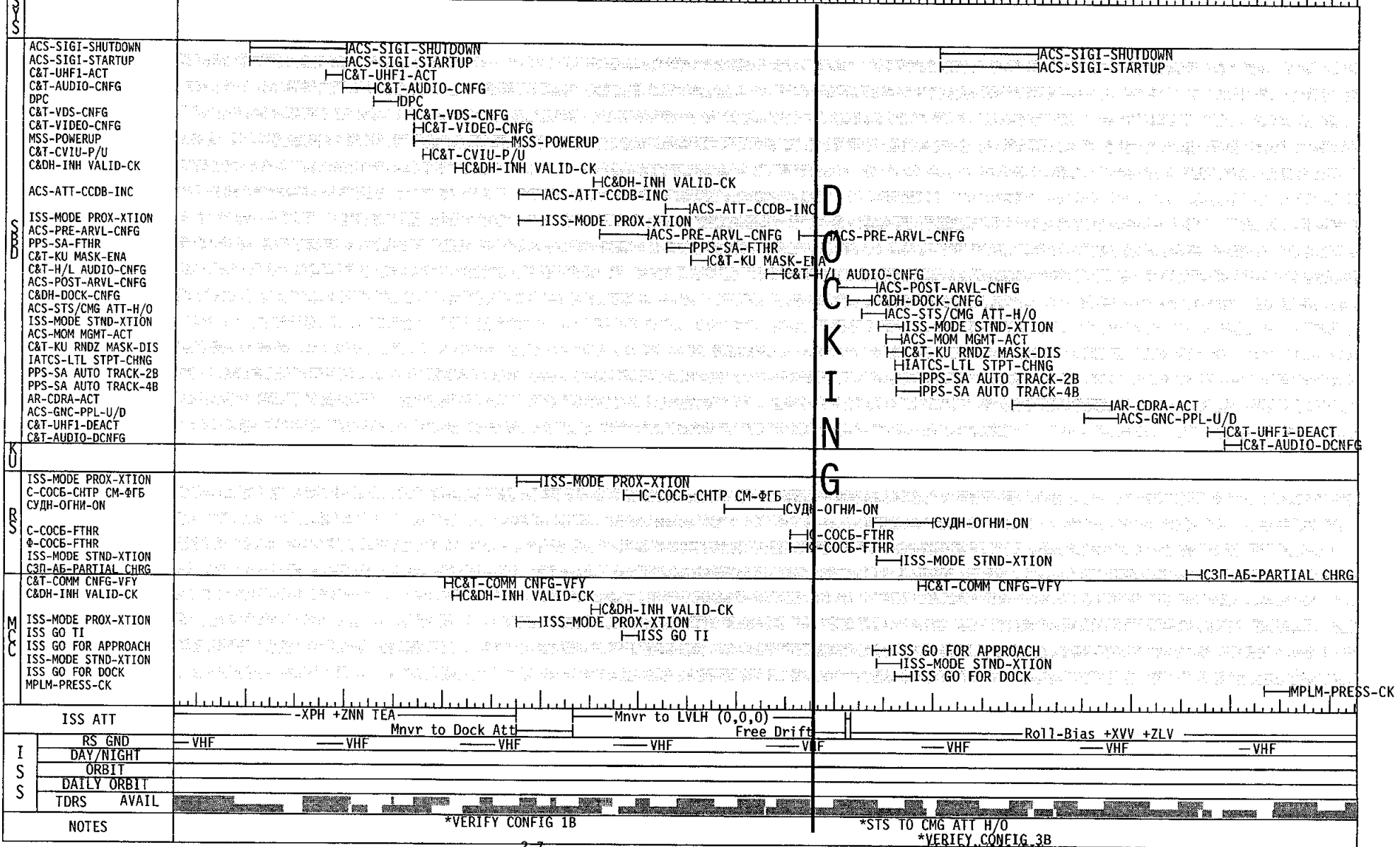
GMT		06/01/02																											
MET		Day 001																											
		001/00		06/02		01		02		03		04		05		06		07		08		09		10		11		12	
S T S - 1 1 1 1	CDR COCKRELL	FD02	EX CI ES RE	OFF DUTY	NC3	OMS BURN	M N Z V L R V	PRE SLEEP	PMC OCA	F L U O T A R D	PRE SLEEP	SLEEP (7 Hours)																	
	PLT LOCKHART	★	OFF DUTY	OMS BURN	RNDZ TOOLS C/O	PRE SLEEP					SLEEP (7 Hours)																		
	MS1 PERRIN	⊕	OFF DUTY	EXERCISE	PRE SLEEP					SLEEP (7 Hours)																			
	MS2 CHANG-DIAZ	◆	OFF DUTY	RNDZ TOOLS C/O	PRE SLEEP - GIRA					SLEEP (7 Hours)																			
	MS3 WHITSON		OFF DUTY	M D D K C K	PRE SLEEP					SLEEP (7 Hours)																			
	MS4 KORZUN		OFF DUTY	PRE SLEEP					SLEEP (7 Hours)																				
	MS5 TRESCHEV		OFF DUTY	PRE SLEEP					SLEEP (7 Hours)																				
DAY/NIGHT		[Shaded bars indicating day/night cycle]																											
ORBIT		17 18 19 20 21 22 23 24 25																											
DAILY ORBIT		6 7 8 9 10 11 12 13 14																											
TDRS		W E [Timeline bars]																											
ATT		-ZLV -XVV - NC3 -ZLV -XVV																											
NOTES		★EMU PREP FOR XFER *HTR DEACT ⊕EMU PREP FOR XFER ◆EMU PREP FOR XFER																											

GMT 06/02/02  
 MET Day 001

GMT	06/02/02	12	13	14	15	16	17	18	19	20	21	22	23	002/00									
STS-111	CDR COCKRELL	FD03 POST SLEEP	GP IR PR UB UP	NH	NC4	ISS RNDZ			APPROACH	M-X N-V L-V	GP PR DN	M PL M*	HATCH OPEN	HS A N D K E	SFTY BRIEF	STLSYS XFER	P A L B T K	P O L B S K	P C B V S 6	A M P A C G U R	A P C U	CPCG-H XFER	
	PLT LOCKHART	SIMO INIT	POST SLEEP	SIMO TERM	C O N D	ISS RNDZ			APPROACH	A I U S D S I O	GP PR DN	ODS PREP INGRS	HATCH OPEN	HS A N D K E	SFTY BRIEF	POST RNDZ PGSC CNFG	EXERCISE		MDDK XFER	R E B A *	R C B O S /	P T V 1 8 S /	
	MS1 PERRIN	POST SLEEP	EXERCISE		POST SLEEP	EMU RMVL	ISS RNDZ			APPROACH	LEAK CHECK	ODS PREP INGRS	HATCH OPEN	HS A N D K E	SFTY BRIEF	EVA TOOL XFER TO ISS	E X T R A P I /	L T T A R A P I /	EMU TO A/L I/F CK	EMU RESIZE	R E B A *	R C B O S /	P T V 1 8 S /
	MS2 CHANG-DIAZ	POST SLEEP - GIRA	GP PR UB UP	POST SLEEP - GIRA	EXERCISE	EMU RMVL	ISS RNDZ	P S I T /	ISS RNDZ	APPROACH	LEAK CHECK	PCS S/U	PTV21 OPS (ISS)	HS A N D K E	SFTY BRIEF	EVA TOOL XFER TO ISS	E X T R A P I /	L T T A R A P I /	EMU TO A/L I/F CK	EMU RESIZE	R E B A *	R C B O S /	P T V 1 8 S /
EXP-5	MS3 WHITSON	POST SLEEP			EXERCISE	M C D K K	ISS RNDZ			APPROACH	PCS S/U	HATCH OPEN	HS A N D K E	SFTY BRIEF	MDDK XFER								
	MS4 KORZUN	POST SLEEP				ISS RNDZ			P/TV20 OPS (RNDZ)			HATCH OPEN	HS A N D K E	SFTY BRIEF	HAND OVER								
	MS5 TRESCHEV	POST SLEEP				ISS RNDZ			APPROACH	HATCH OPEN	HS A N D K E	SFTY BRIEF	S L O K O K L	S O R K Y L	IELK INST & C/O			MDDK XFER					
ISS	CDR EXP4 ONUFRIENKO	SLEEP	POST SLEEP	DPC	WORK PREP	C O N	C O G C A K I M S M P L	C D R A	EXERCISE-VELO+TVIS			* SS MEAL	C K M P L	HATCH OPEN	HS A N D K E	SFTY BRIEF	HAND OVER						
	FE-1 EXP4 WALZ	SLEEP	POST SLEEP	DPC	WORK PREP	P/TV S/U	EXERCISE-CEVIS+TVIS			ISS MEAL	P M A 2 A R V L	LEAK CHECK	HATCH OPEN	HS A N D K E	SFTY BRIEF	C B C S	IELK INST & C/O			MDDK XFER			
	FE-2 EXP4 BURSCH	SLEEP	POST SLEEP	DPC	WORK PREP	8 A P L	EXERCISE- TVIS	φ C B P R R	ISS MEAL	P C T E A D 3 V P /	T O P O P S	EXERCISE- TVIS	HATCH OPEN	HS A N D K E	SFTY BRIEF	STLSYS XFER	MDDK XFER			C H D P I E C A C P C G H X F E R			
DAY/NIGHT	25		26		27		28		29		30		31		32		33						
DAILY ORBIT	14		15		16		1		2		3		4		5		6						
TDRS	W E																						
ORB ATT	-ZLV +YVV																						
ISS ATT	-XPH +ZNN TEA																						
NOTES	*VERIFY CONFIG 1B										*HTR ACT *VERIFY CONFIG 3B * DOCKING @ 01/18:31										*INSTALL		

# STS-111/UF2 JNT MSN SHORT TERM PLAN

MET Day 001 12 13 14 15 16 17 18 19 20 21 22 23 002/00  
 GMT 06/02/02 12 13 14 15 16 17 18 19 20 21 22 23

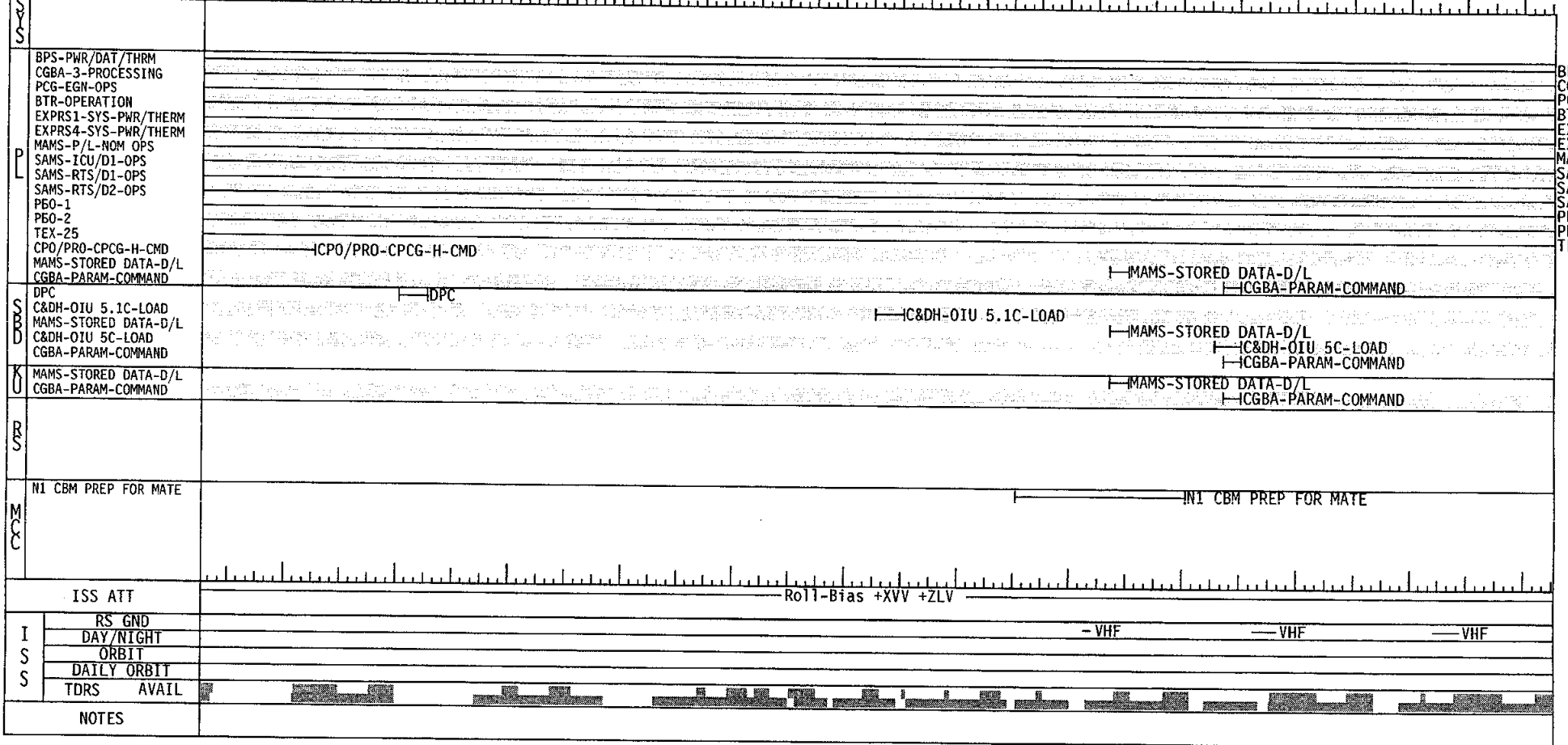




# STS-111/UF2 JNT MSN SHORT TERM PLAN

MET Day 002 002/00 01 02 03 04 05 06 07 08 09 10 11 12

GMT 06/02/02 06/03 01 02 03 04 05 06 07 08 09 10 11



BPS-PWF  
CGBA-3-  
PCG-EGN  
BTR-OPE  
EXPRS1-  
EXPRS4-  
MAMS-P/  
SAMS-IC  
SAMS-RT  
P60-1  
P60-2  
TEX-25



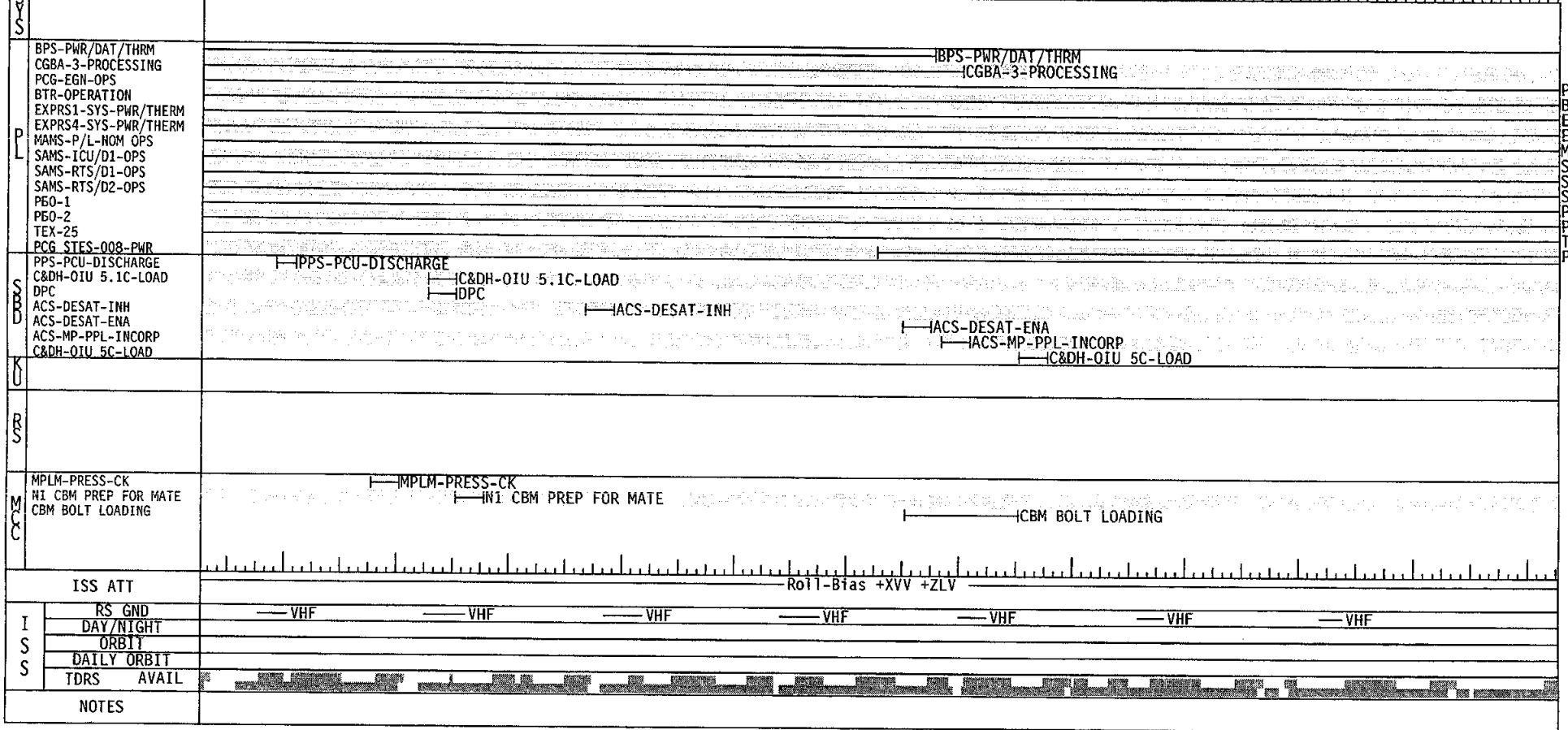
GMT 06/03/02  
 MET Day 002

		12	13	14	15	16	17	18	19	20	21	22	23	003/00			
STS-111	CDR COCKRELL	FD04 POST SLEEP		POST SLEEP	MPLM UNBTH	MPLM UNBTH	MPLM UNBTH	MPLM UNBTH	MPLM UNBTH	MPLM UNBTH	MPLM UNBTH	MPLM UNBTH	MPLM UNBTH	MPLM UNBTH			
	PLT LOCKHART	POST SLEEP		H2O CWC S/U FILL#1	EXERCISE	MDDK XFER	MDDK XFER	MDDK XFER	MDDK XFER	MDDK XFER	MDDK XFER	MDDK XFER	MDDK XFER	MDDK XFER			
	MS1 PERRIN	POST SLEEP		MPLM UNBTH	MPLM UNBTH	MPLM UNBTH	MPLM UNBTH	MPLM UNBTH	MPLM UNBTH	MPLM UNBTH	MPLM UNBTH	MPLM UNBTH	MPLM UNBTH	MPLM UNBTH			
	MS2 CHANG-DIAZ	POST SLEEP - GIRA		PTV22 S/U (RMS)	N2 XFER	MDDK XFER	EXERCISE	PCG STES 8 XFER	BPS XFER SETUP	BPS XFER	MDDK XFER	MDDK XFER	MDDK XFER	MDDK XFER			
EXP4	FE-1 EXP4 WALZ	SLEEP	POST SLEEP	DPC	MAND OFF DUTY	N2 XFER	EXERCISE-TVIS		MPLM VEST EQUIP S/U	MEAL	VEST PRESS	EVA PROC REVW	VEST CNFG FOR INGRSS	VEST CNFG FOR INGRSS			
EXP5	FE-1 EXP5 WHITSON	SLEEP	POST SLEEP	DPC	PREP-WORK	IELK INST & C/O		MAND OFF DUTY	CBCS CAMRA RMV	ISS MEAL	VEST PRESS	EVA PROC REVW	VEST CNFG FOR INGRSS	VEST CNFG FOR INGRSS			
	CDR EXP5 KORZUN	SLEEP	POST SLEEP	DPC	PREP-WORK	H3-HDTV-MO	PEAVOENT	IELK INST & C/O		MAND OFF DUTY	ISS MEAL	EVA PROC REVW	SOKOL STOW	MDDK XFER	EXERCISE-VELO	MDDK XFER	
ISS	CDR EXP4 ONUFRIENKO	SLEEP	POST SLEEP	DPC	PREP-WORK	N2 XFER	PEAVOENT	IELK INST & C/O		MDDK XFER	MEAL	EVA PROC REVW	MDDK XFER	EXERCISE-TVIS			
	FE-2 EXP4 BURSCH	SLEEP	POST SLEEP	DPC	PREP-WORK	IELK INST & C/O		MDDK XFER	PCG STES 8 XFER	MAND OFF DUTY	BPS XFER	MEAL	EVA PROC REVW	EXERCISE-TVIS	MPLM ACT 1	HAND OVER	MPLM ACT 2
	FE-2 EXP5 TRESHEV	SLEEP	POST SLEEP	DPC	PREP-WORK	H3-HDTV-MO	PEAVOENT	MDDK XFER		CGBA XFER	ISS MEAL	EVA PROC REVW	MDDK XFER	COX-MNT	HAND OVER	MOD	
DAY/NIGHT		ORBIT		DAILY ORBIT		TDRS		ORB ATT		ISS ATT		NOTES					
		41		42		43		44		45		46		47		48	
		14		15		1		2		3		4		5		6	
		PWR BIAS -XLV +ZVV		RoII-Bias +XVV +ZLV													
		*HTR ACT		*HTR DEACT		*DEMATE											

# STS-111/UF2 JNT MSN SHORT TERM PLAN

MET Day 002 GMT 06/03/02

003/00



PCG-EGN  
BTR-OPE  
EXPRS1-  
EXPRS4-  
MAMS-P/  
SAMS-IC  
SAMS-RT  
SAMS-RT  
PEO-1  
PEO-2  
TEX-25  
PCG STE

GMT 06/03/02 003/00 06/04 01 02 03 04 05 06 07 08 09 10 11 12  
 MET Day 003

STS-111	CDR COCKRELL	PRE SLEEP	EXPRS XFER	XTFAE RUP	XBFR I OCA	PRE SLEEP	SLEEP
	PLT LOCKHART	MDDK XFER	CXWFC R	IPWF R		PRE SLEEP	SLEEP
	MS1 PERRIN	EXERCISE				PRE SLEEP	SLEEP
	MS2 CHANG-DIAZ	MDDK XFER				PRE SLEEP - GIRA	SLEEP
EXP4	FE-1 EXP4 WALZ	VEST CNFG FOR INGRSS	MIPN LG MR	EXPRS XFER	DPC	PRE SLEEP	SLEEP
	FE-2 EXP4 BÜRSCH	EXERCISE-TVIS	MS P/LUM	MPLM XFER	DPC	PRE SLEEP	SLEEP
EXP5	CDR EXP5 KORZUN	MDDK XFER	STOW (PTV21)	HANDOVER	DPC	PRE SLEEP	SLEEP
ISS	CDR EXP4 ONUFRIENKO	EXERCISE-TVIS	MDDK	HANDOVER	DPC	PRE SLEEP	SLEEP
	FE-1 EXP5 WHITSON	VEST CNFG FOR INGRSS	MIPN LG MR	MAND OFF DUTY	DPC	PRE SLEEP	SLEEP
	FE-2 EXP5 TRESCHEV	EXERCISE-VELO	PTV21 OPS	DPC		PRE SLEEP	SLEEP

DAY/NIGHT	[Timeline with shaded blocks]														
ORBIT	48	49	50	51	52	53	54	55	56						
DAILY ORBIT	6	7	8	9	10	11	12	13	14						
TDRS	[Timeline with horizontal bars]														
ORB ATT	[Timeline with horizontal bars]														
ISS ATT	[Timeline with horizontal bars]														
NOTES															

PWR BIAS -XLV +ZVV  
 Roll-Bias +XVV +ZLV

# STS-111/UF2 JNT MSN SHORT TERM PLAN

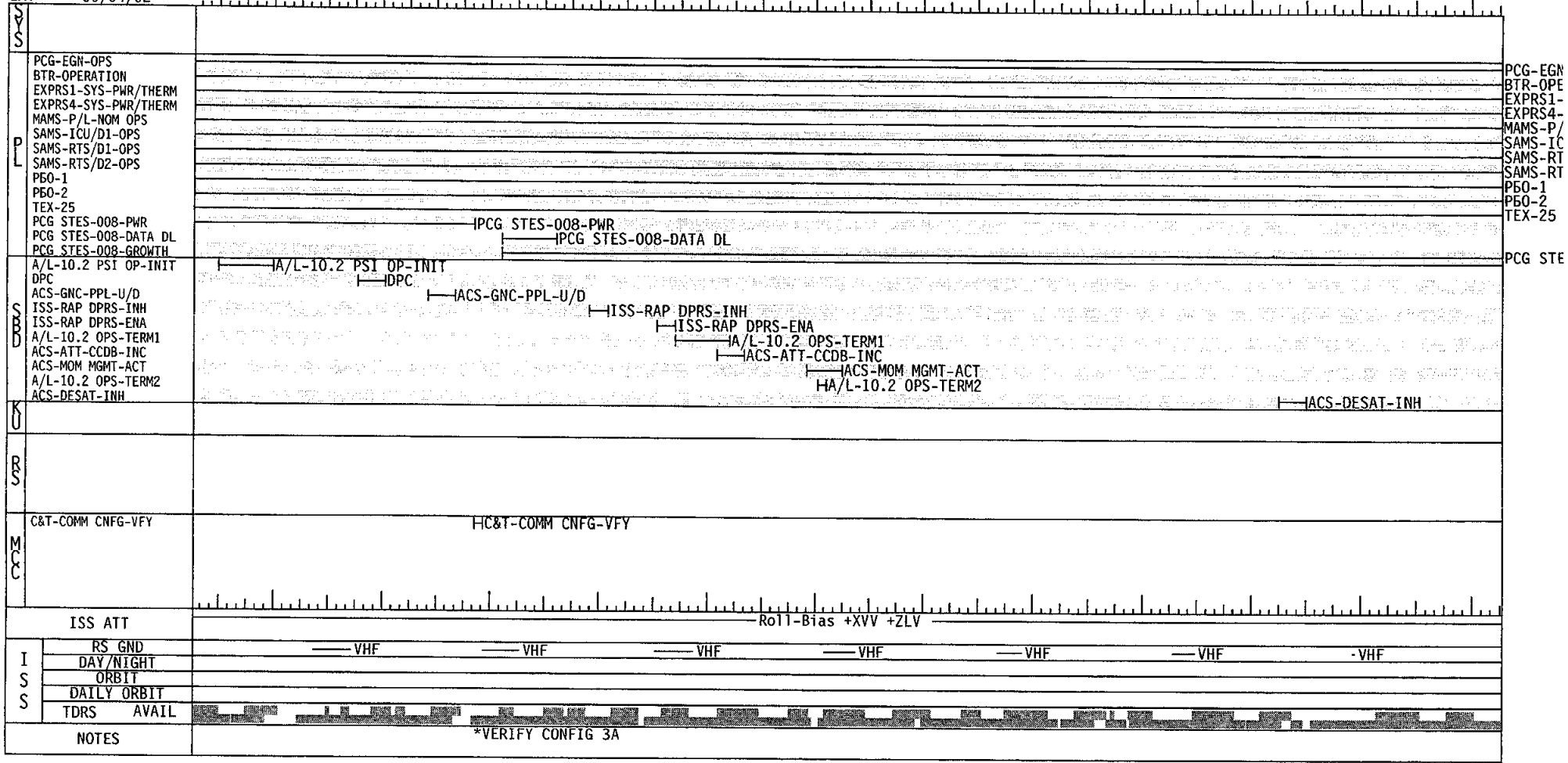
MET Day 003 003/00 01 02 03 04 05 06 07 08 09 10 11 12  
 GMT 06/03/02 06/04 01 02 03 04 05 06 07 08 09 10 11

S			
P	PCG-EGN-OPS BTR-OPERATION EXPRS1-SYS-PWR/THERM EXPRS4-SYS-PWR/THERM MAMS-P/L-NOM OPS SAMS-ICU/D1-OPS SAMS-RTS/D1-OPS SAMS-RTS/D2-OPS P60-1 P60-2 TEX-25 PCG STES-008-PWR MAMS-STORED DATA-D/L		PCG-EGN BTR-OPE EXPRS1- EXPRS4- MAMS-P/ SAMS-IC SAMS-RT SAMS-RT P60-1 P60-2 TEX-25 PCG STE
D	DPC	—IDPC	—MAMS-STORED DATA-D/L
K	MAMS-STORED DATA-D/L		—MAMS-STORED DATA-D/L
R			
M			
I	ISS ATT	—Roll-Bias +XVV +ZLV	
S	RS GND		—VHF
S	DAY/NIGHT		—VHF
S	ORBIT		—VHF
S	DAILY ORBIT		
S	TDRS AVAIL		
S	NOTES		

GMT		06/04/02																					
MET		Day 003																					
		12	13	14	15	16	17	18	19	20	21	22	23	24	004/00								
S T S - 1 1 1	CDR COCKRELL	POST SLEEP		EXERCISE	EXERCISE	SRMS & P/TV SUPPORT	SRMS & P/TV SUPPORT	MEAL	SRMS & P/TV SUPPORT	CWC XFER (2)	POT (2)												
	PLT LOCKHART	POST SLEEP		EVA PREP	A/L 14.7 REPR	P/TV23 S/U (EVA)	IVA EVA SUPPORT	IVA EVA SPPT <b>6.0 Hour EVA</b>															
	MS1 PERRIN	POST SLEEP		EVA PREP	EMU P/B	C/L DPRSS	ESGRTSU SP	SMDP STOW PREP	PDGF INSTALL ON P6	SMDP STOW	MBS BLANKET REMOVE	INGRS/PREREP	RPRS										
	MS2 CHANG-DIAZ	POST SLEEP - GIRA	EVA PREP	EMU P/B	C/L DPRSS	ESGRTSU SP	PDGF INSTALL ON P6	SMDP STOW	MBS BLANKET REMOVE	INGRS/PREREP	RPRS												
E X P - 4	MS3 WALZ	POST SLEEP	DPC PREP-WORK	MPLM TRANSFER	EXERCISE-TVIS	MAND OFF DUTY	MEAL	MPLM TRANSFER	RED CAN SWAP	MBS GRAPPLE/ UNBERTH													
	MS4 BURSCH	POST SLEEP	10.2 OPS	EVA PREP	A/L 14.7 REPR	EMU P/B	C/L DPRSS	MAND OFF DUTY	HANDOVER	MEAL	HANDOVER	EXERCISE-TVIS	MOD										
	MS5 ONUFRIENKO	POST SLEEP	DPC PREP-WORK	MPLM TRANSFER	EXERCISE-TVIS	MEAL	MPLM TRANSFER	MAND OFF DUTY	ODHT-TRNG														
I S S	CDR EXP5 KORZUN	POST SLEEP	DPC PREP-WORK	EXERCISE-VELO	MAND OFF DUTY	BPS4 GAS SMPL	APFR INST/ INGRESS	MNVR PDGF UNSTOW	MNVR PDGF INSTALL	MNVR SMDP UNSTOW	MNVR SMDP STOW	GRAPPLE PDGF#1	MAND OFF DUTY	ODHT-TRNG									
	FE-1 EXP5 WHITSON	POST SLEEP	EVA PREP	A/L 14.7 REPR	EXERCISE-CEVIS	APFR INST/ INGRESS	MNVR PDGF UNSTOW	MNVR PDGF INSTALL	MNVR SMDP UNSTOW	MNVR SMDP STOW	GRAPPLE PDGF#1	MBS GRAPPLE/ UNBERTH											
	FE-2 EXP5 TRESCHEV	POST SLEEP	DPC PREP-WORK	IMS FILE PREP	COX-MNT	MPLM TRANSFER	HANDOVER	ISS MEAL	HANDOVER	EXERCISE-VELO	MPLM TRANSFER	MOD											
DAY/NIGHT		56		57		58		59		60		61		62		63		64					
DAILY ORBIT		14		15		16		1		2		3		4		5		6					
TDRS		W		E																			
ORB ATT																							
ISS ATT																							
NOTES		*VERIFY CONFIG 3A										*CHECK											

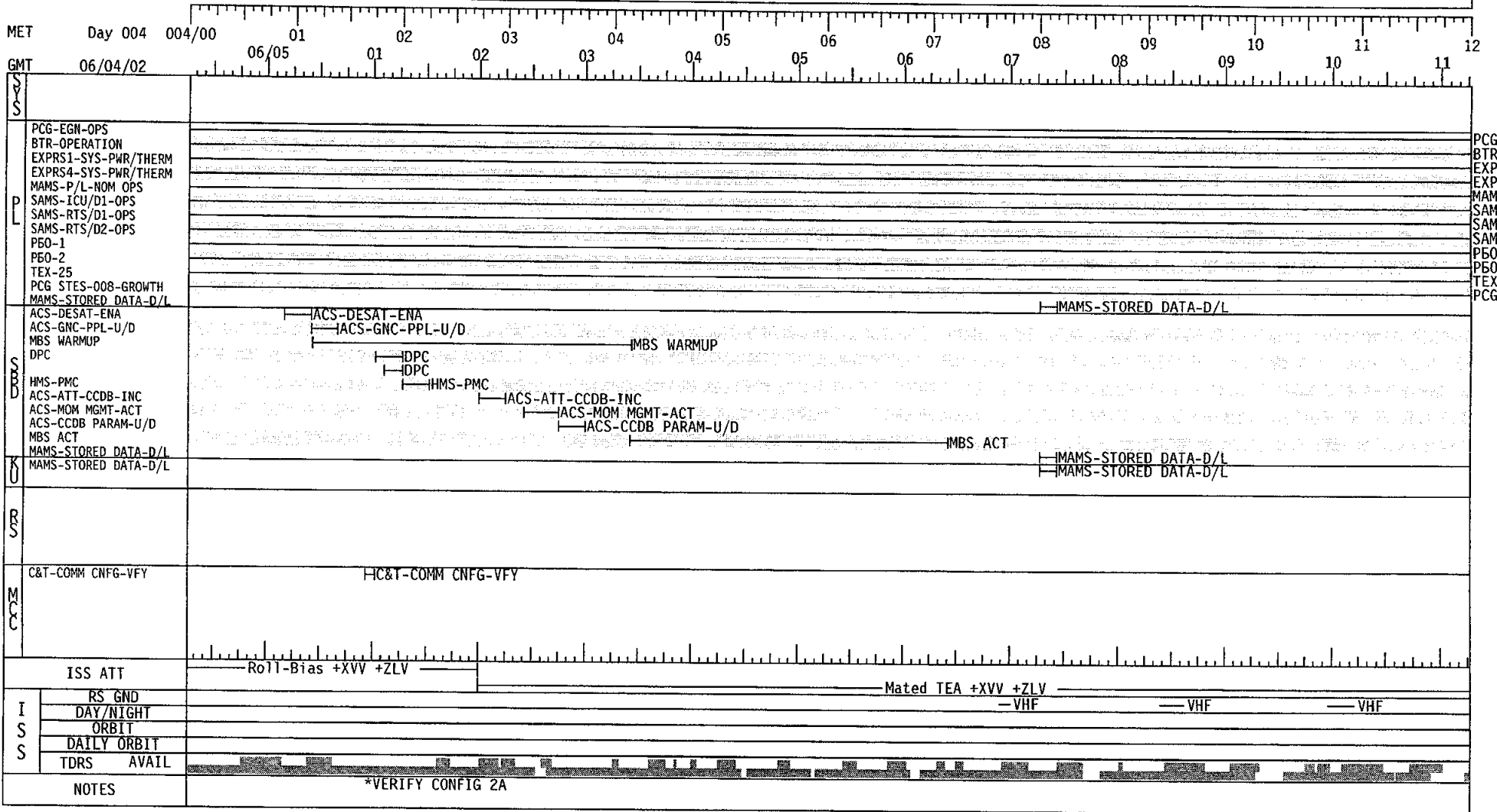
# STS-111/UF2 JNT MSN SHORT TERM PLAN

MET Day 003 12 13 14 15 16 17 18 19 20 21 22 23 004/00  
 GMT 06/04/02 12 13 14 15 16 17 18 19 20 21 22 23



GMT		06/04/02													
MET		Day 004													
		004/00													
		01 02 03 04 05 06 07 08 09 10 11 12													
S T S - 1 1 1	<b>FD05</b> CDR COCKRELL	PTV22 OPS (RMS)	X F R P	X F R P	X F R P	PRE SLEEP			PMC OCA	PRE SLEEP			SLEEP		
	PLT LOCKHART	POST EVA W/H2O				B S A - I	B A T T	PRE SLEEP			SLEEP				
	MS1 PERRIN	POST EVA W/H2O				PRE SLEEP			SLEEP						
	MS2 CHANG-DIAZ	POST EVA W/H2O				PRE SLEEP - GIRA			SLEEP						
E X P - 4	MS3 WALZ	MBS GRAPPLE/ UNBERTH	PLAN REVW	PREP- WORK	DPC	PRE SLEEP			SLEEP						
	MS4 BURSCH	POST EVA W/H2O				B S A - I	B A T T	D P C	PRE SLEEP			SLEEP			
	MS5 ONUFRIENKO	ODHT-TRNG	PLAN REVW	PREP- WORK	DPC	PRE SLEEP			SLEEP						
I S S	CDR EXP5 KORZUN	ODHT-TRNG	PLAN REVW	PREP- WORK	DPC	PMC	PRE SLEEP			SLEEP					
	FE-1 EXP5 WHITSON	MBS GRAPPLE/ UNBERTH	PLAN REVW	PREP- WORK	DPC	PMC	PRE SLEEP			SLEEP					
	FE-2 EXP5 TRESCHEV	MOD	U P F L - 2	PLAN REVW	PREP- WORK	C N	D P C	PMC	PRE SLEEP			SLEEP			
DAY/NIGHT		[Timeline with shaded blocks for day/night cycles]													
ORBIT		64 65 66 67 68 69 70 71 72													
DAILY ORBIT		6 7 8 9 10 11 12 13 14													
TDRS		[Timeline with horizontal bars for TDRS events]													
ORB ATT		PWR BIAS -XLV +ZVV													
ISS ATT		Roll-Bias +XVV +ZLV													
NOTES		*IVA EVA SPPT *VERIFY CONFIG 2A													
		BIAS -XLV +ZVV													
		Mated TEA +XVV +ZLV													

# STS-111/UF2 JNT MSN SHORT TERM PLAN





GMT 06/05/02  
 MET Day 004

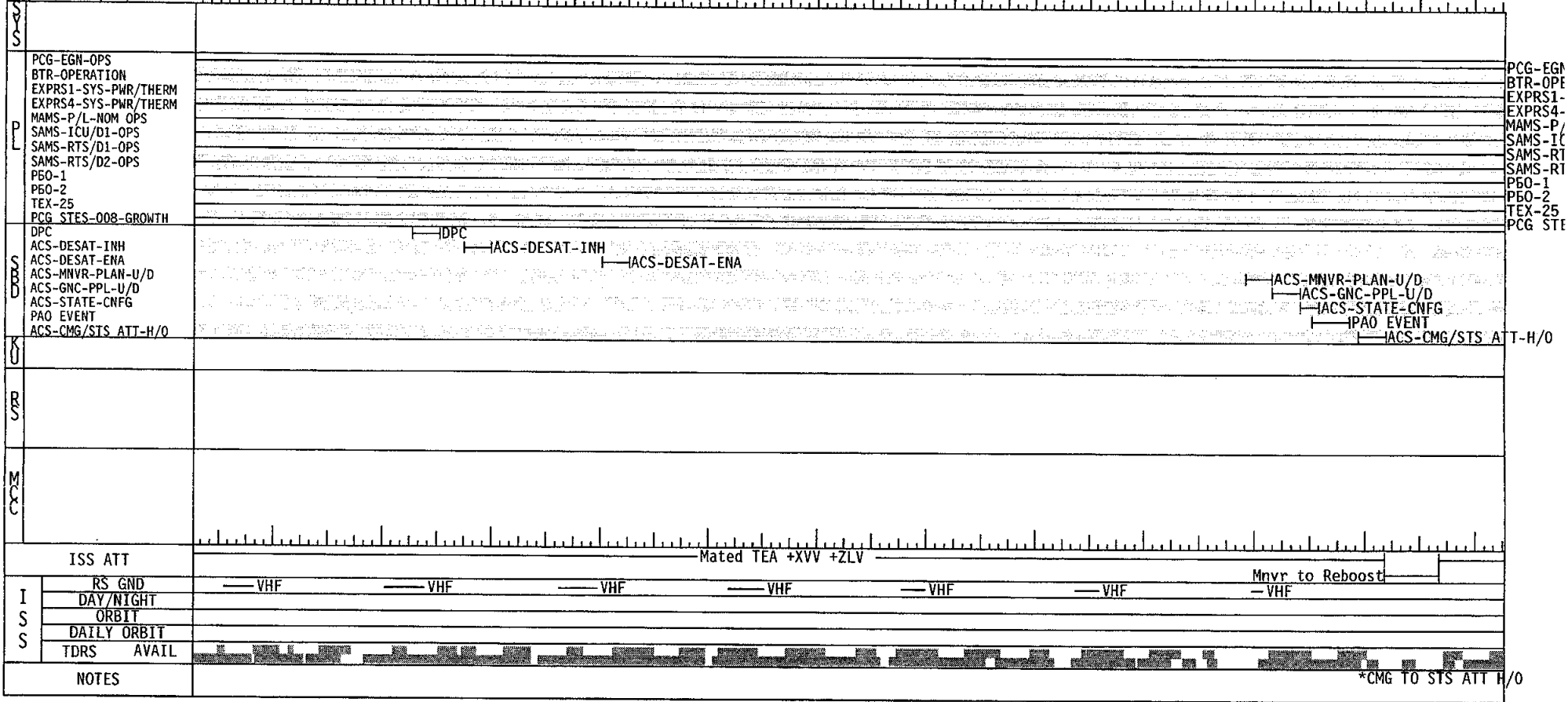
STS-111	CDR COCKRELL	FD06	POST SLEEP	HTR	POST SLEEP	MVBISEW	PTV22 OPS (MBS INST)	MVBISEW	PTV22 OPS (MBS INST)	MVBISEW	MPLM TRANSFER	PS(VUS)	PEAVOENT	CXWFER	PCRLORAE	CINWCI#6	EXERCISE	CTWERM#6	MEAL	CMND	EVA PROC REVW	CXWFER	ATT HO*	MNVR +ZLV	REBST CONFG 4
	PLT LOCKHART		POST SLEEP				FILTER CLEAN INSPECT	HTR		CINWCI#5	EXERCISE	CTWERM#5				MPLM TRANSFER		MEAL	CMND	EVA PROC REVW	PEAVOENT	PWR FILL #2	PXWFER	REBST CONFG 4	
	MS1 PERRIN		POST SLEEP			AXUFPDRTRE	EXERCISE				MPLM TRANSFER	PEAVOENT	MPLM TRANSFER	REBA*	METOX	SAFER C/O		MEAL	CMND	EVA PROC REVW	MPLM TRANSFER	EVAFF5		E/L PREP	
	MS2 CHANG-DIAZ		POST SLEEP - GIRA			ASPRN	02 XFER S/U	02HPT			EXERCISE		MPLM TRANSFER	REBA*	METOX	SAFER C/O		MEAL	CMND	EVA PROC REVW	PEAVOENT	02HPT	RCONF	BSA-T	E/L PREP
EXP-4	MS3 WALZ	SLEEP	POST SLEEP	DPC	PREP-WORK	MBS INSTALL	MTC	MSG XFER			EXERCISE-TVIS		MPLM TRANSFER				MEAL	CMND	EVA PROC REVW	PEAVOENT	02HPT	RCONF		MPLM TRANSFER	
	MS4 BURSCH	SLEEP	POST SLEEP	DPC	PREP-WORK	02 XFER S/U	02HPT	MDDK	LSPTAOP	PPPP			MPLM TRANSFER				MEAL	CMND	EVA PROC REVW	PEAVOENT				MPLM XFER	*
	MS5 ONUFRIENKO	SLEEP	POST SLEEP	DPC	PREP-WORK	02 XFER S/U	02HPT				MPLM TRANSFER		EXERCISE-TVIS				MEAL	CMND	EVA PROC REVW	MDDK XFER	02HPT	RCONF		MPLM TRANSFER	
ISS	CDR EXP5 KORZUN	SLEEP	POST SLEEP	DPC	PREP-WORK	HDTV		EXERCISE-VELO			MPLM TRANSFER						ISS MEAL	CMND	EVA PROC REVW					MPLM TRANSFER	
	FE-1 EXP5 WHITSON	SLEEP	POST SLEEP	DPC	PREP-WORK	MBS INSTALL	MTC	MSG XFER			MPLM TRANSFER		MAND OFF DUTY		EXERCISE-CEVIS	UFL-2	ISS MEAL	CMND	EVA PROC REVW	PEAVOENT				MPLM TRANSFER	
	FE-2 EXP5 TRESHEV	SLEEP	POST SLEEP	DPC	PREP-WORK	HDTV		MPLM TRANSFER	COX-MNT	PCT			MPLM TRANSFER				ISS MEAL	CMND	EVA PROC REVW					MPLM TRANSFER	

DAY/NIGHT																									
ORBIT	72		73		74		75		76		77		78		79										
DAILY ORBIT	14		15		1		2		3		4		5		6										
TDRS																									
ORB ATT																									
ISS ATT																									
NOTES																									

BIAS -XLV +ZVV  
 Mated TEA +XVV +ZLV  
 \*RCS REG RECONFIG  
 \*CAB TEMP  
 \*INSTALL  
 \*EXERCISE  
 \*CMG TO STS ATT H/O

# STS-111/UF2 JNT MSN SHORT TERM PLAN

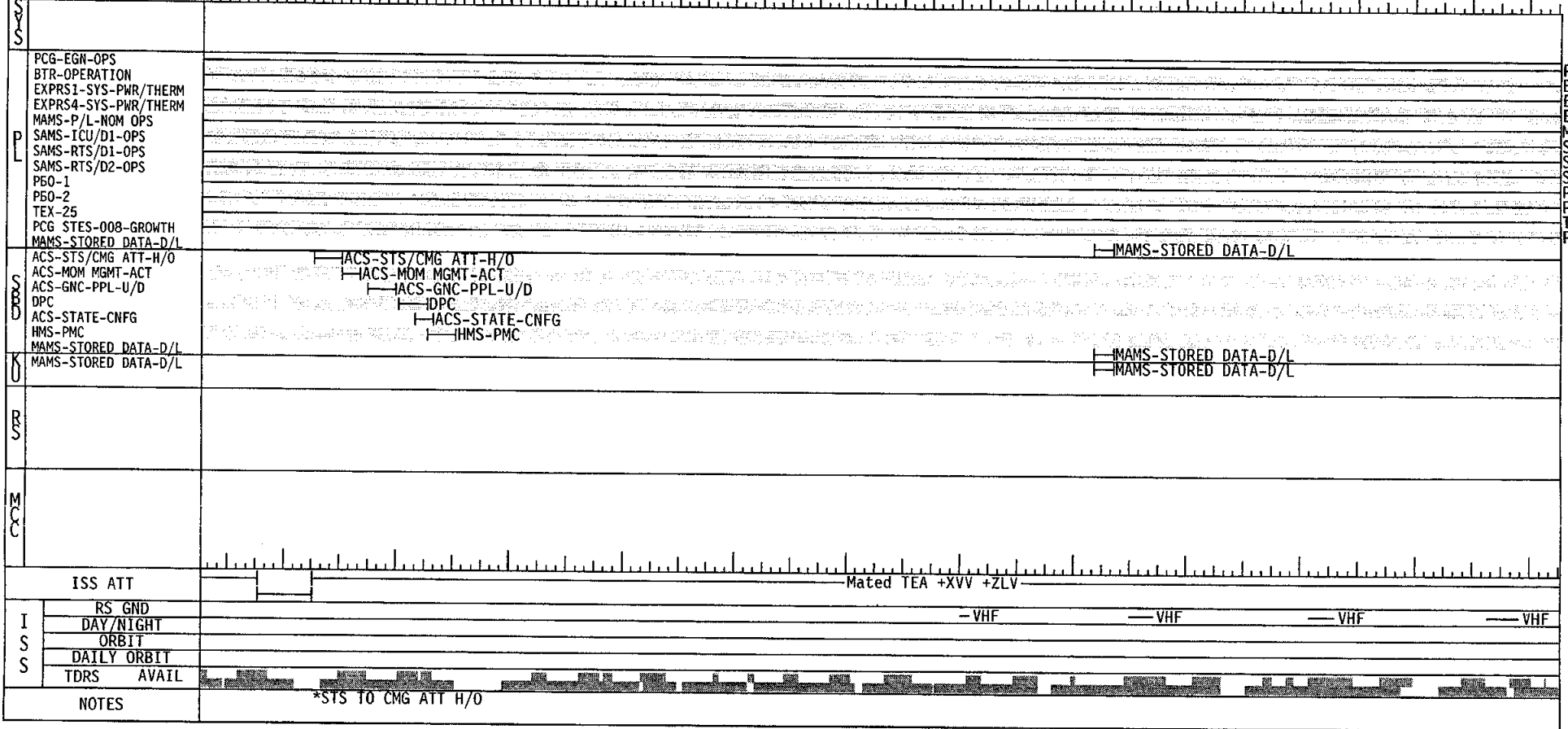
MET Day 004 12 13 14 15 16 17 18 19 20 21 22 23 005/00  
 GMT 06/05/02 12 13 14 15 16 17 18 19 20 21 22 23



GMT		06/05/02																			
MET		Day 005																			
		005/00	06/06	01	01	02	02	03	03	04	04	05	06	07	08	09	10	11	12		
STS-111	CDR COCKRELL	FD06 REBST CONFG 4	MNVR TEA	ATT HO*	PRE SLEEP	XT FA EG RU P	XB FR EI RE F	PRE SLEEP	PMC OCA	PRE SLEEP										SLEEP	
	PLT LOCKHART	REBST CONFG 4	MM AD RR K	MX DF ED K						PRE SLEEP										SLEEP	
	MS1 PERRIN	EVA2 TOOL CONFIG		B A T T						PRE SLEEP										SLEEP	
	MS2 CHANG-DIAZ	EVA2 TOOL CONFIG		B A T T						PRE SLEEP - GIRA										SLEEP	
EXP-4	MS3 WALZ	MPLM TRANSFER			DPC					PRE SLEEP										SLEEP	
	MS4 BURSCH	EXERCISE-TVIS			DPC					PRE SLEEP										SLEEP	
	MS5 ONUFRIENKO	MPLM TRANSFER			DPC					PRE SLEEP										SLEEP	
ISS	CDR EXP5 KORZUN	MPLM TRANSFER			DPC	PMC				PRE SLEEP										SLEEP	
	FE-1 EXP5 WHITSON	MPLM TRANSFER			DPC	PMC				PRE SLEEP										SLEEP	
	FE-2 EXP5 TRESHEV	IMS FILE PREP	EXERCISE- VELO		DPC	PMC				PRE SLEEP										SLEEP	
DAY/NIGHT		[Timeline with shaded blocks]																			
ORBIT		[Timeline with shaded blocks]																			
DAILY ORBIT		[Timeline with shaded blocks]																			
TDRS		[Timeline with shaded blocks]																			
ORB ATT		[Timeline with shaded blocks]																			
ISS ATT		[Timeline with shaded blocks]																			
NOTES		*MPLM TRANSFER *STS TO CMG ATT H/O																			
												BIAS -XLV +ZVV									
												Mated TEA +XVV +ZLV									

# STS-111/UF2 JNT MSN SHORT TERM PLAN

MET Day 005 005/00 01 02 03 04 05 06 07 08 09 10 11 12  
 GMT 06/05/02 06/06 01 02 03 04 05 06 07 08 09 10 11

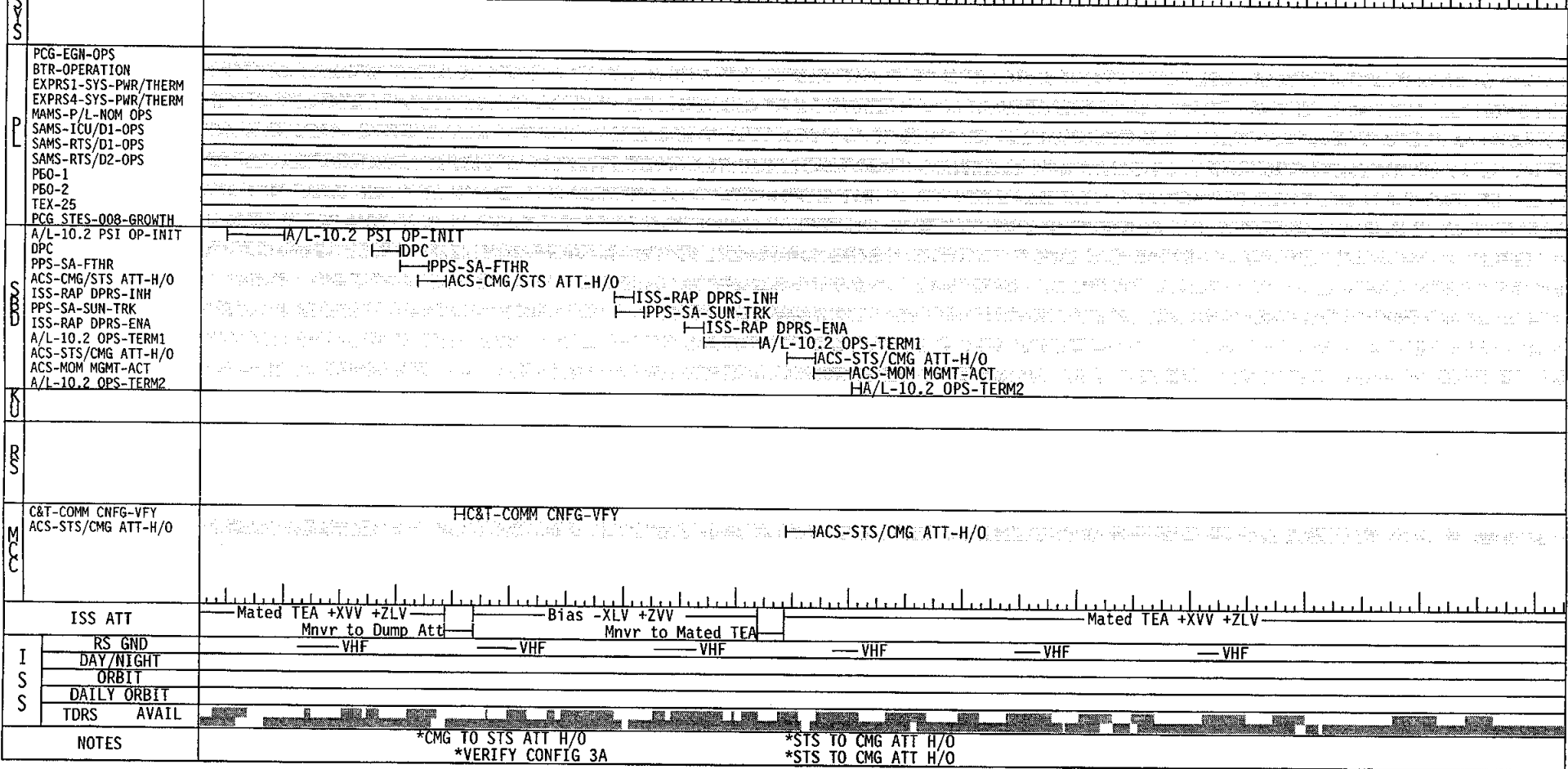


PCG-EGN  
 BTR-OPERATION  
 EXPRS1-SYS-PWR/THERM  
 EXPRS4-SYS-PWR/THERM  
 MAMS-P/L-NOM OPS  
 SAMS-ICU/D1-OPS  
 SAMS-RTS/D1-OPS  
 SAMS-RTS/D2-OPS  
 P50-1  
 P50-2  
 TEX-25  
 PCG STES-008-GROWTH  
 MAMS-STORED DATA-D/L  
 ACS-STG/CMG ATT-H/O  
 ACS-MOM MGMT-ACT  
 ACS-GNC-PPL-U/D  
 DPC  
 ACS-STATE-CNFG  
 HMS-PMC  
 MAMS-STORED DATA-D/L  
 MAMS-STORED DATA-D/L  
 MAMS-STORED DATA-D/L  
 MAMS-STORED DATA-D/L



# STS-111/UF2 JNT MSN SHORT TERM PLAN

MET Day 005 12 13 14 15 16 17 18 19 20 21 22 23 006/00  
 GMT 06/06/02 12 13 14 15 16 17 18 19 20 21 22 23



PCG-EGN  
 BTR-OPE  
 EXPRS1-  
 EXPRS4-  
 MAMS-P/  
 SAMS-IC  
 SAMS-RT  
 SAMS-RT  
 P60-1  
 P60-2  
 TEX-25  
 PCG STE

GMT 06/06/02 006/00 06/07 01 01 02 02 03 04 04 05 06 07 08 09 10 11 12  
 MET Day 006

		ISS SVS SURVEY												
STS - 1 1 1	FD07 CDR COCKRELL	EVA P/TV SUPPORT	MCAWGR	CFGR	XFAFRUP	XFRIFE	PRE SLEEP	PMCOCA	PRE SLEEP	ISS SVS SURVEY SLEEP				
	PLT LOCKHART	IVA EVA SUPPORT	POST EVA W/H2O			PRE SLEEP			SLEEP					
	MS1 PERRIN	IPNRGRSP C/LRPRS	POST EVA W/H2O			PRE SLEEP			SLEEP					
	MS2 CHANG-DIAZ	IPNRGRSP C/LRPRS	POST EVA W/H2O			WATCH	PRE SLEEP - GIRA			SLEEP				
EXP - 4	MS3 WALZ	MNVR JOINT R&R	MDDK	PLAN REVW	PREP-WORK	DPC	PRE SLEEP			SLEEP				
	MS4 BÜRSCH	MPLM TRANSFER		PLAN REVW	PREP-WORK	DPC	PRE SLEEP			SLEEP				
	MS5 ONUFRIENKO	*	IMS	PLAN REVW	PREP-WORK	DPC	PRE SLEEP			SLEEP				
ISS	CDR EXP5 KORZUN	⊕ MAND OFF DUTY	CON	PLAN REVW	PREP-WORK	DPC	PMC	PRE SLEEP			SLEEP			
	FE-1 EXP5 WHITSON	MNVR JOINT R&R	POST EVA W/H2O			DPC	PMC	PRE SLEEP			SLEEP			
	FE-2 EXP5 TRESCHEV	MPLM TRANSFER	PLAN REVW	PREP-WORK	DPC	PMC	PRE SLEEP			SLEEP				
DAY/NIGHT		[Timeline bars for Day/Night]												
ORBIT		95	96		97	98		99	100		101	102		103
DAILY ORBIT		7	8		9	10		11	12		13	14		15
TDRS WE		[Timeline bars for TDRS]												
ORB ATT		[Timeline bars for Orb Att]												
ISS ATT		[Timeline bars for ISS Att]												
NOTES		*EXERCISE-TVIS ⊕EXERCISE-VELO *VERIFY CONFIG 2A BIAS -XLV +ZVV Mated TEA +XVV +ZLV												

# STS-111/UF2 JNT MSN SHORT TERM PLAN

MET Day 006 006/00 01 02 03 04 05 06 07 08 09 10 11 12  
 GMT 06/06/02 06/07 01 02 03 04 05 06 07 08 09 10 11

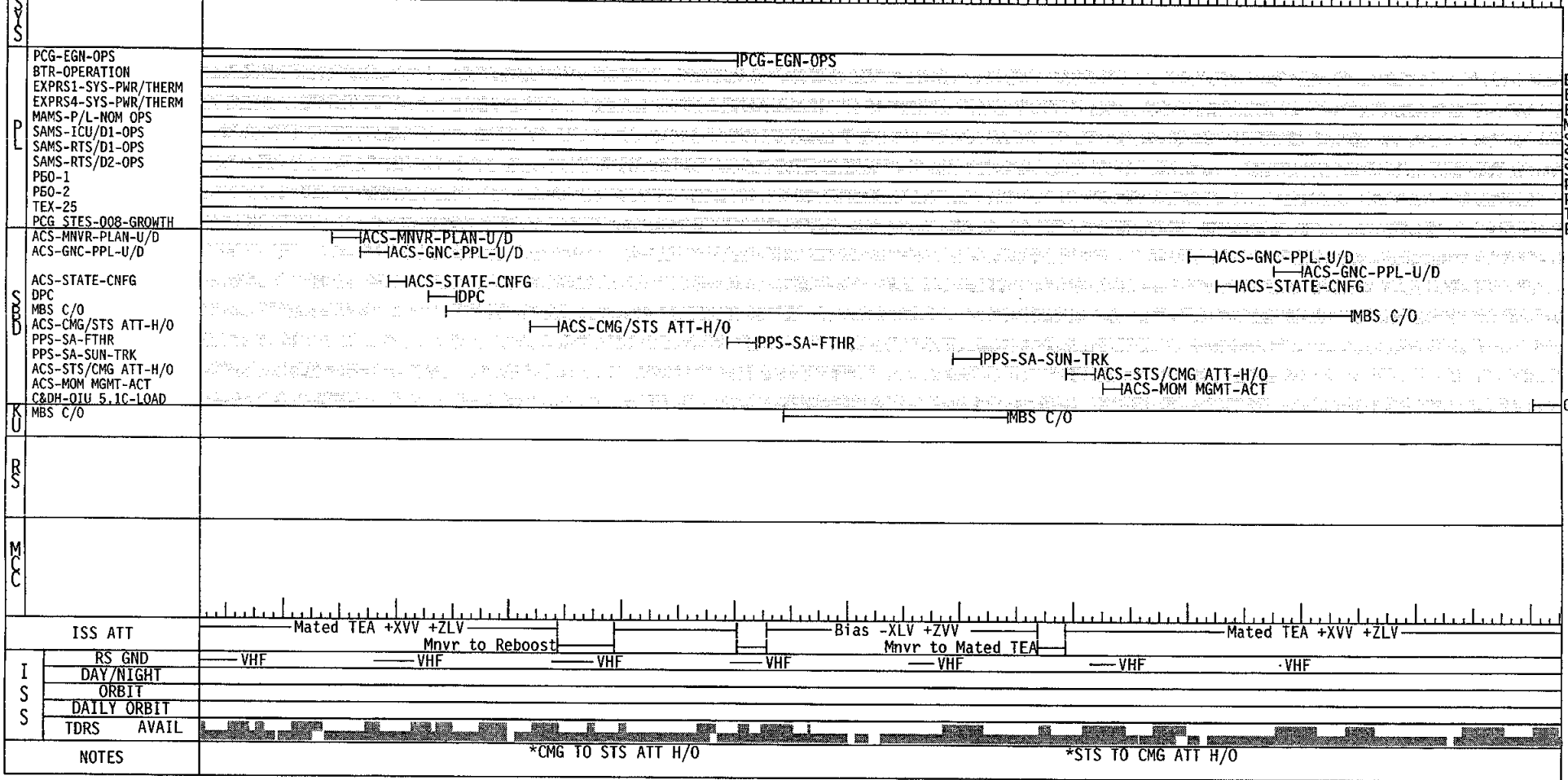
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P	PCG-EGN-OPS BTR-OPERATION EXPRS1-SYS-PWR/THERM EXPRS4-SYS-PWR/THERM MAMS-P/L-NOM OPS SAMS-ICU/D1-OPS SAMS-RTS/D1-OPS SAMS-RTS/D2-OPS PEO-1 PEO-2 TEX-25 PCG STES-008-GROWTH MAMS-STORED DATA-D/L		PCG-EGN BTR-OP EXPRS1- EXPRS4- MAMS-P/ SAMS-IC SAMS-RT SAMS-RT PEO-1 PEO-2 TEX-25 PCG STE
D	DPC	-----  IDPC  -----  IDPC  -----  IHMS-PMC  -----  IPSS-PCU-STANDBY	-----  MAMS-STORED DATA-D/L
K	HMS-PMC PPS-PCU-STANDBY MAMS-STORED DATA-D/L		-----  MAMS-STORED DATA-D/L  -----  MAMS-STORED DATA-D/L
S	MAMS-STORED DATA-D/L		-----  MAMS-STORED DATA-D/L  -----  MAMS-STORED DATA-D/L
C	C&T-COMM CNFG-VFY	HC&T-COMM CNFG-VFY	
I	ISS ATT	Mated TEA +XVV +ZLV	
S	RS GND		--- VHF --- VHF --- VHF
S	DAY/NIGHT		
S	ORBIT		
S	DAILY ORBIT		
S	TDRS AVAIL		
N	NOTES	*VERIFY CONFIG 2A	



GMT		06/07/02																				
MET		Day 006																				
		12	13	14	15	16	17	18	19	20	21	22	23	007/00								
STS-111	CDR COCKRELL	FD08 POST SLEEP			UPD ATT HO*	MNVR +ZLV	REBOOST CONFG 4	MNVR -XLV	SIN PLTY	PWR DUMP	CWC DUMP	STPERLYM	CWC DUMP	MTNEVAR	ATT HO*	MEAL	EVA PROC REVW	CREW PHOTO	CREW CONF	MAGR	CINCT#8	EXER CISE
	PLT LOCKHART	POST SLEEP			MDK	MDDK XFER	REBOOST CONFG 4	EXERCISE		MPLM TRANSFER		PWR FILL #3	MEAL	EVA PROC REVW	CREW PHOTO	CREW CONF	MPLM XFER					
	MS1 PERRIN	POST SLEEP			ASPRN 02 SETUP	O2 HPT	O2 LPT	MPLM TRANSFER	REBAF5	SAFER C/O	METOX	E/L PREP	EVA 3 TOOL CONFIG	MEAL	EVA PROC REVW	CREW PHOTO	CREW CONF	EXERCISE	MX PFLMR			
	MS2 CHANG-DIAZ	POST SLEEP - GIRA			ASPRN	EXERCISE		MPLM TRANSFER	REBA*	SAFER C/O	METOX	E/L PREP	EVA 3 TOOL CONFIG	MEAL	EVA PROC REVW	CREW PHOTO	CREW CONF	MPLM XFER				
EXP-4	MS3 WALZ	SLEEP	POST SLEEP	DPC	PREP-WORK	02 SETUP	O2 HPT	O2 LPT	MPLM TRANSFER		EXERCISE-TVIS		MEAL	EVA PROC REVW	CREW PHOTO	CREW CONF	HANDOVER	MX PFLMR				
	MS4 BURSCH	SLEEP	POST SLEEP	DPC	PREP-WORK	HANDOVER		EXERCISE-TVIS		MPLM TRANSFER		PS TVU 21	MEAL	EVA PROC REVW	CREW PHOTO	CREW CONF	MPLM XFER					
	MS5 ONUFRIENKO	SLEEP	POST SLEEP	DPC	PREP-WORK	02 SETUP	O2 HPT	O2 LPT	MPLM TRANSFER		HANDOVER		MEAL	EVA PROC REVW	CREW PHOTO	CREW CONF	EXERCISE-TVIS					
ISS	CDR EXP5 KORZUN	SLEEP	POST SLEEP	DPC	PREP-WORK	IMS FILE PREP	UPL -2	MPLM XFER		HANDOVER		ISS MEAL	EVA PROC REVW	CREW PHOTO	CREW CONF	COX-MNT	PCT EAD 3V 2F 12Y *					
	FE-1 EXP5 WHITSON	SLEEP	POST SLEEP	DPC	PREP-WORK	MPLM TRANSFER		EXERCISE-CEVIS		ISS MEAL	EVA PROC REVW	CREW PHOTO	CREW CONF	HANDOVER				MX PFLMR				
	FE-2 EXP5 TRESCHEV	SLEEP	POST SLEEP	DPC	PREP-WORK	HANDOVER		EXERCISE-VELO	MPLM TRANSFER		ISS MEAL	EVA PROC REVW	CREW PHOTO	CREW CONF	MPLM TRANSFER							
DAY/NIGHT		103		104		105		106		107		108		109		110		111				
DAILY ORBIT		15		16		1		2		3		4		5		6		7				
TDRS		E																				
ORB ATT		BIAS -XLV +ZVV																				
ISS ATT		Mated TEA +XVV +ZLV																				
NOTES		*CMG TO STS ATT H/O										*INSTALL					*STS TO CMG ATT H/O					*EXERCISE

# STS-111/UF2 JNT MSN SHORT TERM PLAN

MET Day 006 12 13 14 15 16 17 18 19 20 21 22 23 007/00  
 GMT 06/07/02 12 13 14 15 16 17 18 19 20 21 22 23



BTR-OP1  
 EXPRS1-  
 EXPRS4-  
 MAMS-P  
 SAMS-I  
 SAMS-R  
 SAMS-R  
 P60-1  
 P60-2  
 TEX-25  
 PCG STI

C&DH-O1

GMT		06/07/02												
MET		Day 007												
		007/00 06/08 01 02 03 04 05 06 07 08 09 10 11 12												
S T S - 1 1 1	CDR COCKRELL	EC X I S E R E	PRE SLEEP	H 2 0	PRE SLEEP	X T F A I R R U P	X B F R E I R E F	PMC OCA	PRE SLEEP	ISS SURVEY				SLEEP
	PLT LOCKHART	M X P L E R	W C S *	C T W E R C R # 8	C X F E R	PRE SLEEP			SLEEP					
	MS1 PERRIN	MPLM XFER		P X W F E R R	PRE SLEEP			SLEEP						
	MS2 CHANG-DIAZ	MPLM XFER	0 2 L P T	0 2 H P T	R C N F G	PRE SLEEP - GIRA			SLEEP					
E X P - 4	MS3 WALZ	MPLM XFER	0 2 L P T	0 2 H P T	R C N F G	MPLM XFER	DPC	PRE SLEEP	SLEEP					
	MS4 BURSCH	MPLM XFER	0 2 L P T	0 2 H P T	R C N F G	M D D K	MPLM XFER	DPC	PRE SLEEP	SLEEP				
	MS5 ONUFRIENKO	EXERCISE- TVIS	HANDOVER		DPC			PRE SLEEP	SLEEP					
I S S	CDR EXP5 KORZUN	EXERCISE- VELO	HANDOVER		DPC PMC			PRE SLEEP	SLEEP					
	FE-1 EXP5 WHITSON	MPLM XFER			DPC PMC			PRE SLEEP	SLEEP					
	FE-2 EXP5 TRESCHV	MPLM TRANSFER			DPC PMC			PRE SLEEP	SLEEP					
DAY/NIGHT		[Day/Night Cycle]												
ORBIT		111 112 113 114 115 116 117 118												
DAILY ORBIT		7 8 9 10 11 12 13 14												
TDRS		[TDRS Schedule]												
ORB ATT		[Orbit Attenuation]												
ISS ATT		BIAS -XLV +ZVV Mated TEA +XVV +ZLV												
NOTES		*WCS COMPACT OPS												

# STS-111/UF2 JNT MSN SHORT TERM PLAN

MET Day 007 007/00 01 02 03 04 05 06 07 08 09 10 11 12

GMT 06/07/02 06/08 01 02 03 04 05 06 07 08 09 10 11

S			
P	BTR-OPERATION EXPRS1-SYS-PWR/THERM EXPRS4-SYS-PWR/THERM MAMS-P/L-NOM OPS SAMS-ICU/D1-OPS SAMS-RTS/D1-OPS SAMS-RTS/D2-OPS PEO-1 PEO-2 TEX-25 PCG STES-008-GROWTH MAMS-STORED DATA-D/L		BTR-OP EXPRS1 EXPRS4 MAMS-P SAMS-I SAMS-R SAMS-R PEO-1 PEO-2 TEX-25 PCG ST
S	DPC	-----  DPC	-----  MAMS-STORED DATA-D/L
D	HMS-PMC C&DH-OIU 5C-LOAD MAMS-STORED DATA-D/L	-----  HMS-PMC  -----  C&DH-OIU 5C-LOAD	-----  MAMS-STORED DATA-D/L
U	MAMS-STORED DATA-D/L		-----  MAMS-STORED DATA-D/L
S			
M			
ISS ATT		----- Mated TEA +XV +ZLV	
I	RS GND		----- VHF
S	DAY/NIGHT		----- VHF
S	ORBIT		----- VHF
S	DAILY ORBIT		----- VHF
S	TDRS AVAIL		
NOTES			

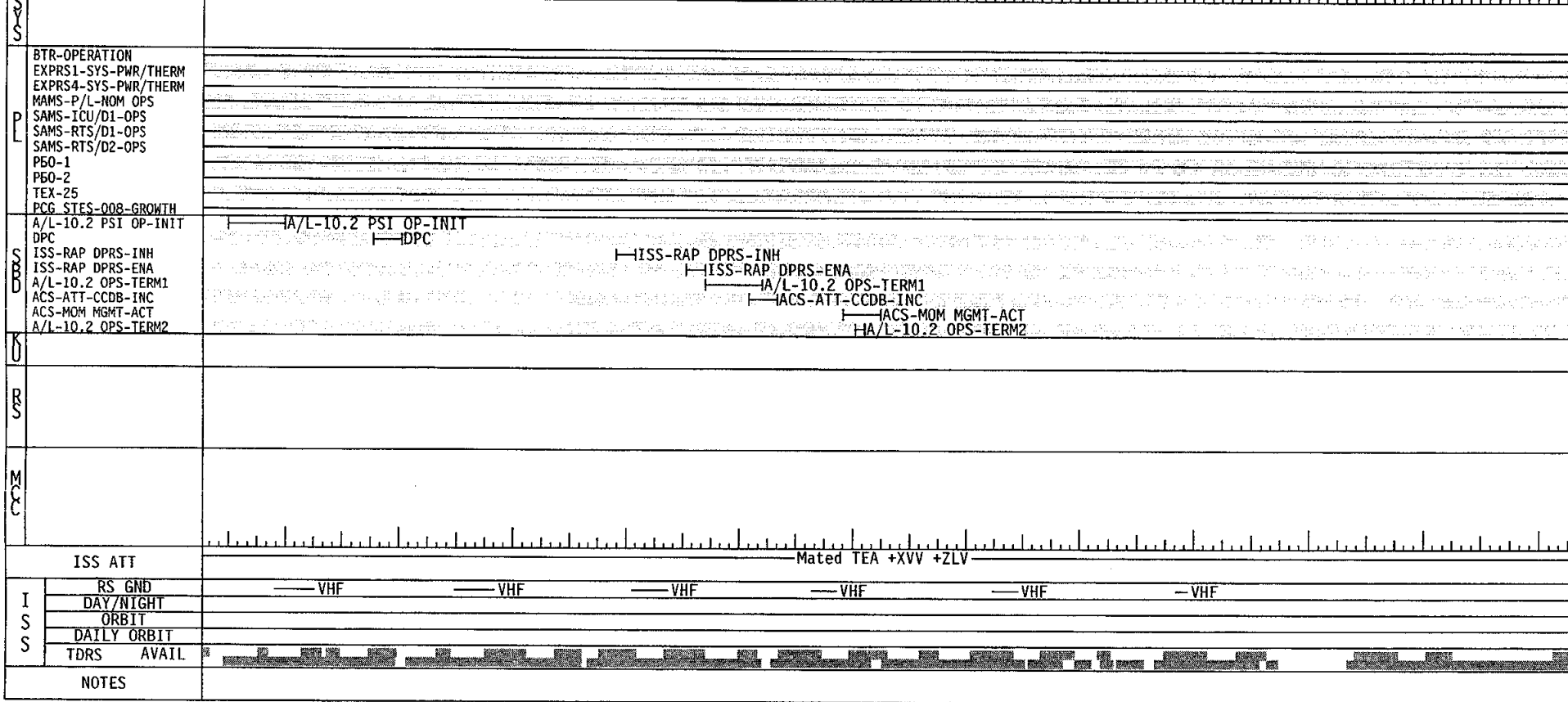
GMT 06/08/02  
 MET Day 007

GMT	06/08/02	12	13	14	15	16	17	18	19	20	21	22	23	008/00	
S T S - 1 1 1	CDR COCKRELL	POST SLEEP	PMC A/G	POST SLEEP	EVA ABT	EXERCISE	SRMS & P/TV SUPPORT	MEAL	SRMS & P/TV SUPPORT						
	PLT LOCKHART	POST SLEEP		10.2 OPS EVA PREP		A/L 14.7 REPR	P/TV23 S/U (EVA)	IVA EVA SUPPORT	IVA EVA SUPPORT <b>6.5 Hour EVA</b>						
	MS1 PERRIN	POST SLEEP		EVA PREP	EP MURGE	EMU P/B	C/L DPRSS	6.5 HOUR EVA 3						EVA CLEAN UP	IP NRRRSP
	MS2 CHANG-DIAZ	POST SLEEP - GIRA		EVA PREP	EP MURGE	EMU P/B	C/L DPRSS	6.5 HOUR EVA 3						EVA CLEAN UP	IP NRRRSP
E X P - 4	MS3 WALZ	POST SLEEP	DPC	PREP-WORK	HANDOVER		MAND OFF DUTY	EXERCISE-TVIS	MEAL	HANDOVER	MPLM RACK CONFIG	CPA INSTALL			
	MS4 BURSCH	POST SLEEP		10.2 OPS EVA PREP		A/L 14.7 REPR	EMU P/B	C/L DPRSS	HANDOVER	MEAL	MAND OFF DUTY	EXERCISE-TVIS	MNVR STOW		
	MS5 ONUFRIENKO	POST SLEEP	DPC	PREP-WORK	ПФП ОДНТ ТРНГ	MAND OFF DUTY	BPS DATA	EXERCISE-TVIS	MPLM TRANSFER	MEAL	MPLM TRANSFER				
I S S	CDR EXP5 KORZUN	POST SLEEP	DPC	PREP-WORK	ПФП ОДНТ ТРНГ	EXERCISE-VELO	MPLM XFER	S/S SEVTU MAP	MPLM XFER	ISS MEAL	MAND OFF DUTY	MPLM XFER		MNVR STOW	
	FE-1 EXP5 WHITSON	POST SLEEP	DPC	PREP-WORK	HANDOVER		UP FL - 2	MAND OFF DUTY	EXERCISE-CEVIS	ISS MEAL	HANDOVER	MPLM RACK CONFIG	CPA INSTALL		
	FE-2 EXP5 TRESCHEV	POST SLEEP	DPC	PREP-WORK	ISS HOUSE KEEP	MPLM XFER	HANDOVER		ISS MEAL	MPLM XFER	MAND OFF DUTY	EXERCISE-VELO	MPLM XFER		
DAY/NIGHT ORBIT		119	120	121	122	123	124	125	126						
DAILY ORBIT		15	1	2	3	4	5	6	7						
TDRS		[Gantt chart showing activity bars across the timeline]													
ORB ATT		BIAS -XLV +ZVV													
ISS ATT		Mated TEA +XVV +ZLV													
NOTES		*CHECK													

# STS-111/UF2 JNT MSN SHORT TERM PLAN

MET Day 007 12 13 14 15 16 17 18 19 20 21 22 23 008/00

GMT 06/08/02 12 13 14 15 16 17 18 19 20 21 22 23



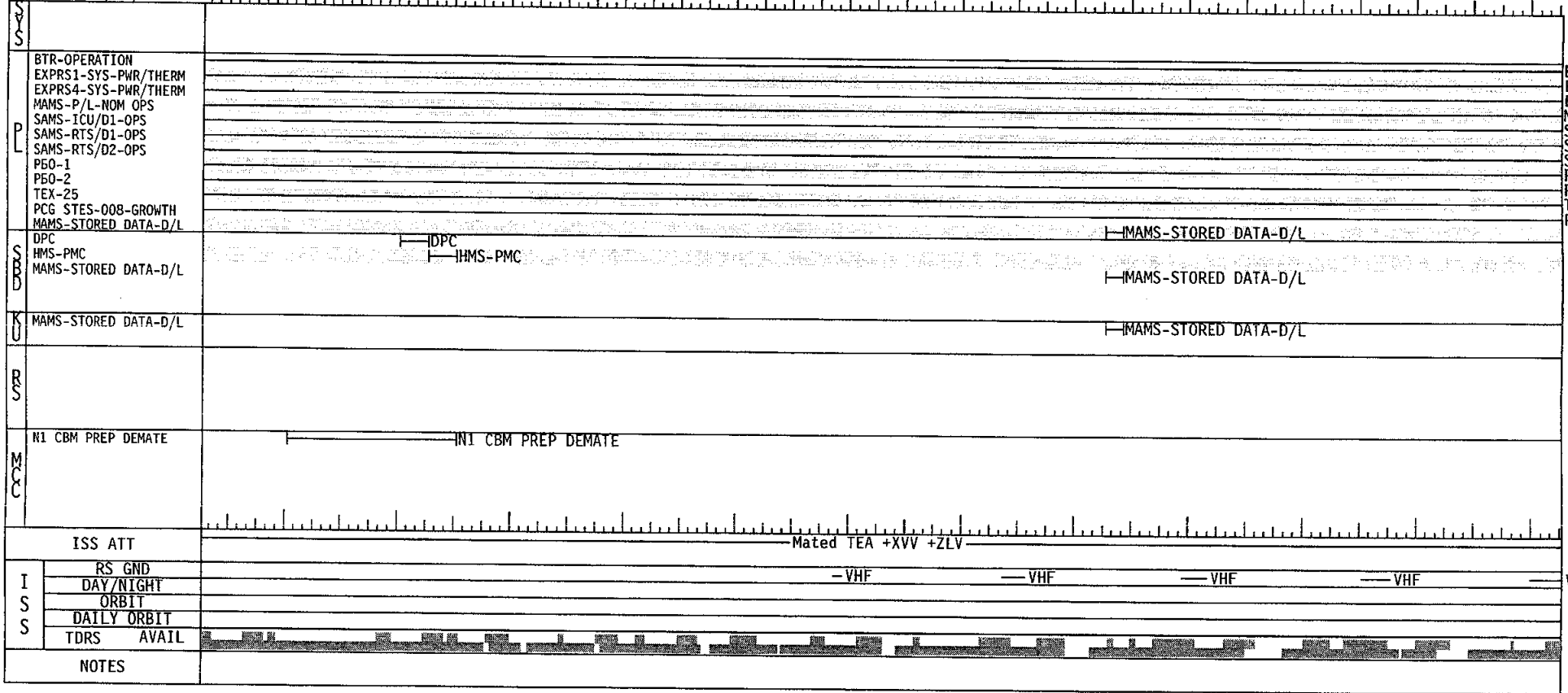
BTR-OP  
EXPRS1-  
EXPRS4-  
MAMS-P/  
SAMS-IC  
SAMS-RT  
SAMS-RT  
P60-1  
P60-2  
TEX-25  
PCG STI

GMT		06/08/02												
MET		Day 008												
		008/00												
		01 02 03 04 05 06 07 08 09 10 11 12												
S T S - 1 1 1	CDR COCKRELL	FD09 SRMS & P/TV SUPPORT		M A G G R	X T I X B F R E F	PRE SLEEP		PMC OCA	PRE SLEEP			SLEEP		
	PLT LOCKHART	IVA EVA SUPPORT				POST EVA W/H2O		S A F E R	PRE SLEEP			SLEEP		
	MS1 PERRIN	I P N R G E R P R S P				POST EVA W/H2O			PRE SLEEP			SLEEP		
	MS2 CHANG-DIAZ	I P N R G E R P R S P				POST EVA W/H2O		M A T I C H	PRE SLEEP - GIRA			SLEEP		
E X P - 4	MS3 WALZ	CPA INSTALL			PLAN REWV	PREP- WORK	DPC		PRE SLEEP			SLEEP		
	MS4 BURSCH	MNVR STOW			POST EVA W/H2O		S A F E R	M D K	PRE SLEEP			SLEEP		
	MS5 ONUFRIENKO	MPLM TRANSFER			PLAN REWV	PREP- WORK	DPC		PRE SLEEP			SLEEP		
I S S	CDR EXP5 KORZUN	MNVR STOW			PLAN REWV	PREP- WORK	DPC	PMC	PRE SLEEP			SLEEP		
	FE-1 EXP5 WHITSON	CPA INSTALL			PLAN REWV	PREP- WORK	DPC	PMC	PRE SLEEP			SLEEP		
	FE-2 EXP5 TRESCHEV	MPLM XFER			PLAN REWV	PREP- WORK	DPC	PMC	PRE SLEEP			SLEEP		
DAY/NIGHT		[Day/Night Cycle]												
ORBIT		[Orbit Cycle]												
DAILY ORBIT		[Daily Orbit Cycle]												
TDRS		[TDRS Cycle]												
ORB ATT		[Orbit Att Cycle]												
ISS ATT		[ISS Att Cycle]												
NOTES		[Notes]												

# STS-111/UF2 JNT MSN SHORT TERM PLAN

MET Day 008 008/00 01 02 03 04 05 06 07 08 09 10 11 12

GMT 06/08/02 01 02 03 04 05 06 07 08 09 10 11



BTR-OP  
 EXPRS1  
 EXPRS4  
 MAMS-P  
 SAMS-I1  
 SAMS-R  
 SAMS-R  
 PEO-1  
 PEO-2  
 TEX-25  
 PCG STI

VHF



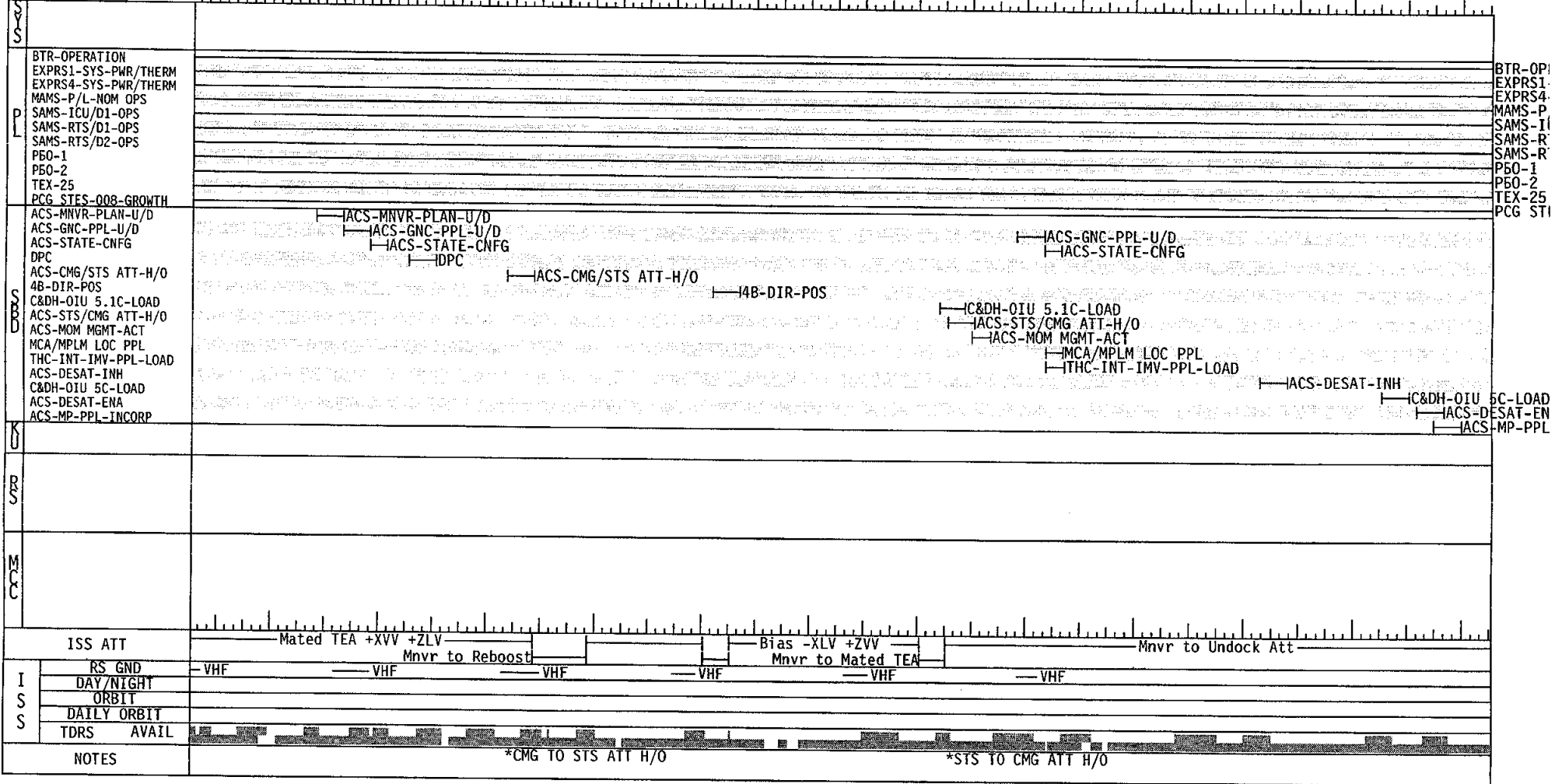
GMT 06/09/02  
 MET Day 008

STS-111	CDR COCKRELL	FD10	POST SLEEP	XUFPEDITE	ATT HO*	MNVR -XLV	REBOOST CONFG 3	MNVR -XLV	SINLITY	EXERCISE	STPENLRVYMR	MTNEVAHO*	GRA PL	MEAL		PS (T/US)	MPLM UNINST	MPLM BERTH	RM OPLUM	UNGRP	AMP	PRWSDN
	PLT LOCKHART		POST SLEEP	MDDK		MNVR -XLV	REBOOST CONFG 3	MNVR -XLV	SINLITY	PWR DUMP	STPENLRVYMR	MTNEVAHO*		MEAL	PWR FILL #4	PWR FILL #5	PXWFER	EXERCISE			PXWFER	MDFDK
	MS1 PERRIN		POST SLEEP	ASPRN		MPLM XFER	XFAIE RUP	XFR EUREP	EXERCISE	HTR	MDDK XFER	PTV22 S/U (RMS)	GRA PL	MEAL	EVA TOOL XFER/STOW		MPLM UNINST	MPLM BERTH	ROEU	UNGRP	RNDZ PGSC S/U	
	MS2 CHANG-DIAZ		POST SLEEP - GIRA	ASPRN	SETUP	O2 HPT	MPLM XFER	PS (T/US)	PTV24 S/U	EXERCISE	PTV24 S/U	P/TV24 OPS	MDDK XFER	MEAL	EVA TOOL XFER/STOW	N2 TERM	O2 HPT	MDDK XFER		UNGRP	RNDZ PGSC S/U	
EXP-4	MS3 WALZ	SLEEP	POST SLEEP	DPC	PREP-WORK	EMU RESIZE	EMU PREP FOR XFER	EMGRS	MPLM D/A	VEST CONFIG DEMATE	SIENASMT	VEST DEPRESS	MEAL	N1 NDR CBM DEMATE	MOD	EXERCISE-TVIS						
	MS4 BURSCH	SLEEP	POST SLEEP	DPC	PREP-WORK	SETUP	O2 HPT	MPLM XFER	MPLM D/A	HAND OVER	MOD	EXERCISE-TVIS	MEAL	ITCS SAMP LTL	ITCS SAMP MTL	N2 TERM	O2 HPT	HAND OVER				
	MS5 ONUFRIENKO	SLEEP	POST SLEEP	DPC	PREP-WORK		ПФП-ОДНТ-ТРНГ		EXERCISE-TVIS	MAND OFF DUTY		HANDOVER	MEAL			HAND OVER						
ISS	CDR EXP5 KORZUN	SLEEP	POST SLEEP	DPC	PREP-WORK		ПФП-ОДНТ-ТРНГ		EXERCISE-VELO	HDTV		HANDOVER	ISS MEAL			HAND OVER						
	FE-1 EXP5 WHITSON	SLEEP	POST SLEEP	DPC	PREP-WORK	EMU RESIZE	EMU PREP FOR XFER	MEPGLRMS	MPLM D/A	VEST CONFIG DEMATE	SIENASMT	VEST DEPRESS	ISS MEAL	N1 NDR CBM DEMATE	MOD	MDDK XFER	EXERCISE-CEVIS					
	FE-2 EXP5 TRESCHEV	SLEEP	POST SLEEP	DPC	PREP-WORK		MPLM TRANSFER		HAND OVER	HDTV	MDDK XFER	EXERCISE-VELO	ISS MEAL	COX MNT	COGC 5MP Φ1 MNT	UPFL-2	HAND OVER					

DAY/NIGHT																					
ORBIT	134	135	136	137	138	139	140	141	142												
DAILY ORBIT	15	1	2	3	4	5	6	7	8												
TDRS																					
ORB ATT		BIAS -XLV +ZVV		REBOOST		BIAS -XLV +YVV		BIAS -XLV +ZVV													
ISS ATT		Mated TEA +XVV +ZLV				Bias -XLV +ZVV															
NOTES			*CMG TO STS ATT H/O					*STS TO CMG ATT H/O													*HTR ACT *XFER TA

# STS-111/UF2 JNT MSN SHORT TERM PLAN

MET Day 008 12 13 14 15 16 17 18 19 20 21 22 23 009/00  
 GMT 06/09/02 12 13 14 15 16 17 18 19 20 21 22 23



GMT		06/09/02													
MET		Day 009													
		009/00	01	02	03	04	05	06	07	08	09	10	11	12	
S T S - 1 1 1	CDR COCKRELL	FD10 *XFR TAGUP	PRE SLEEP	PRE SLEEP	ISS SURVEY									FD11	POST SLEEP
	PLT LOCKHART	RNDZ TOOLS C/O	PRE SLEEP		SLEEP									POST SLEEP	
	MS1 PERRIN	RNDZ TOOLS C/O	PRE SLEEP	SLEEP									POST SLEEP		
	MS2 CHANG-DIAZ	PTV21 OPS (ISS)	PRE SLEEP - GIRA	SLEEP									POST SLEEP - GIRA		
E X P - 4	MS3 WALZ	PLAN REWV	PREP- WORK	DPC	PRE SLEEP		SLEEP								
	MS4 BURSCH	PLAN REWV	PREP- WORK	DPC	PRE SLEEP		SLEEP								
	MS5 ONUFRIENKO	PLAN REWV	PREP- WORK	DPC	PRE SLEEP		SLEEP								
I S S	CDR EXP5 KORZUN	PLAN REWV	PREP- WORK	DPC	PMC	PRE SLEEP		SLEEP							
	FE-1 EXP5 WHITSON	PLAN REWV	PREP- WORK	DPC	PMC	PRE SLEEP		SLEEP							
	FE-2 EXP5 TRESCHEV	PLAN REWV	PREP- WORK	DPC	PMC	PRE SLEEP		SLEEP							
DAY/NIGHT															
ORBIT		142	143	144	145	146	147	148	149	150					
DAILY ORBIT		8	9	10	11	12	13	14	15	16					
TDRS		[Timeline bars]													
ORB ATT		[Timeline bars]													
ISS ATT		[Timeline bars]													
NOTES		*XFR TAGUP *HTR DEACT *EXERCISE-TVIS *EXERCISE-CEVIS BIAS -XLV +ZVV Mnvr to Undock Att													

# STS-111/UF2 JNT MSN SHORT TERM PLAN

MET Day 009 009/00 01 02 03 04 05 06 07 08 09 10 11 12  
 GMT 06/09/02 06/10 01 02 03 04 05 06 07 08 09 10 11

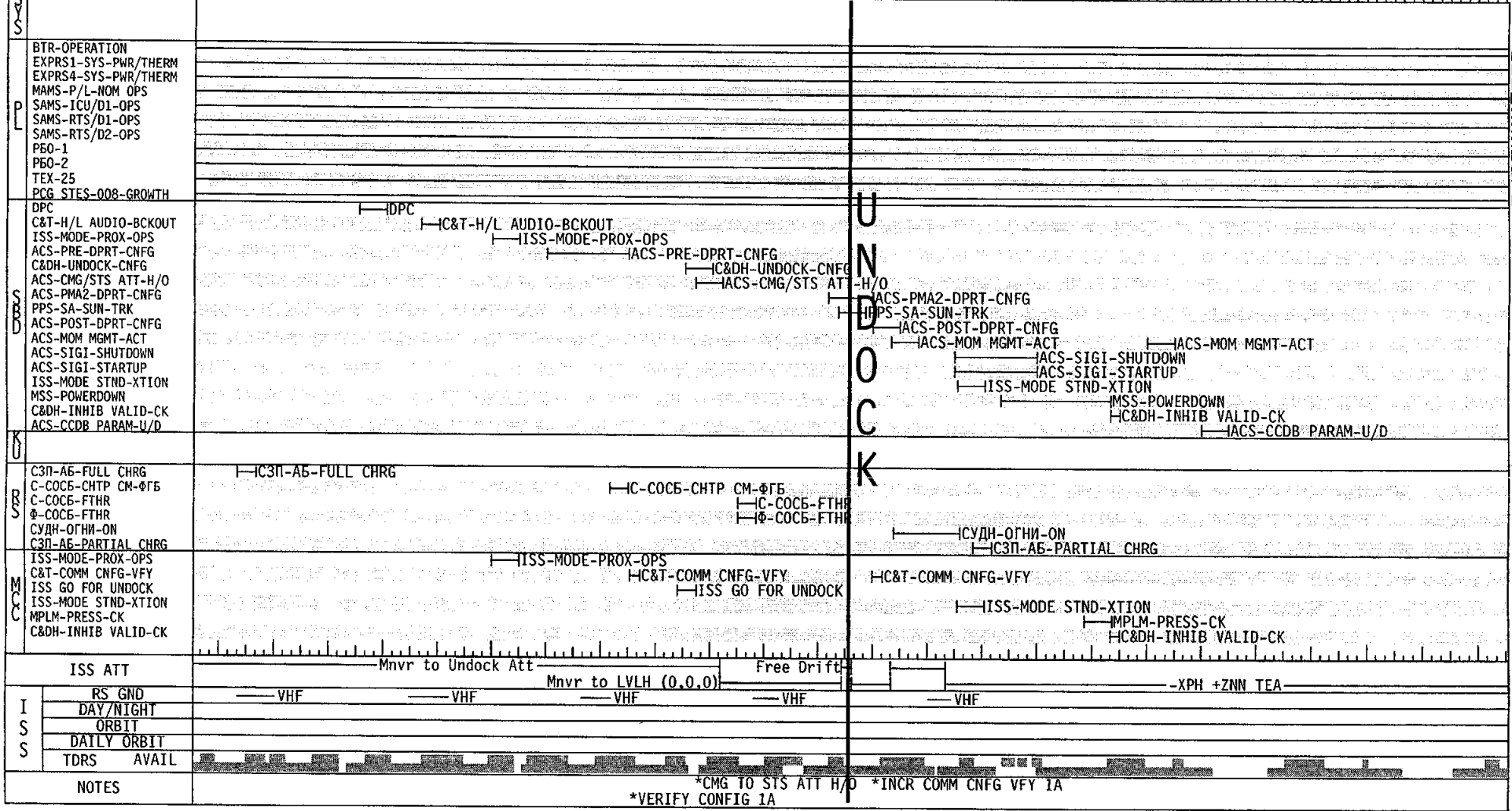
S			
P	BTR-OPERATION EXPRS1-SYS-PWR/THERM EXPRS4-SYS-PWR/THERM MAMS-P/L-NOM OPS SAMS-ICU/D1-OPS SAMS-RTS/D1-OPS SAMS-RTS/D2-OPS P50-1 P50-2 TEX-25 PCG STES-008-GROWTH MAMS-STORED DATA-D/L		BTR-OP EXPRS1 EXPRS4 MAMS-P SAMS-I SAMS-R SAMS-R P50-1 P50-2 TEX-25 PCG STI
S	MPLM-ENV-CHECK DPC HMS-PMC PPS-SA-SUN-TRK MAMS-STORED DATA-D/L ACS-CCDB PARAM-U/D ACS-GNC-PPL-U/D	-----  MPLM-ENV-CHECK  -----  IDPC  -----  IHMS-PMC  -----  PPS-SA-SUN-TRK	-----  MAMS-STORED DATA-D/L  -----  MAMS-STORED DATA-D/L  -----  ACS-CCDB PARAM-U/D  -----  ACS-GNC-PPL-U/D
K	MAMS-STORED DATA-D/L		-----  MAMS-STORED DATA-D/L
S			
M	MPLM-ENV-CHECK	-----  MPLM-ENV-CHECK	
ISS ATT		Mnvr to Undock Att	
I	RS GND		----- VHF
S	DAY/NIGHT		----- VHF
S	ORBIT		----- VHF
S	DAILY ORBIT		----- VHF
S	TDRS AVAIL		
NOTES			



# STS-111/UF2 JNT MSN SHORT TERM PLAN

MET Day 009 12 13 14 15 16 17 18 19 20 21 22 23 010/00

GMT 06/10/02 12 13 14 15 16 17 18 19 20 21 22 23



BTR-OPI  
 EXPRS1-  
 EXPRS4-  
 MAMS-P  
 SAMS-I  
 SAMS-R  
 SAMS-R  
 PEO-1  
 PEO-2  
 TEX-25  
 PCG STI

NOTES \*CMG TO STS ATT H/O \*INCR COMM CNFG VFY 1A \*VERIFY CONFIG 1A

GMT		06/10/02																							
MET		Day 010																							
		010/00	01	02	03	04	05	06	07	08	09	10	11	12											
S T S - 1 1 1	FD11 CDR COCKRELL	OFF DUTY	ASIMO RINIT	PRE SLEEP	SIMO TERM	PRE SLEEP	PMC OCA	SLEEP						FD12 POST SLEEP											
	PLT LOCKHART	*PFC	PRE SLEEP			SLEEP						POST SLEEP													
	MS1 PERRIN	OFF DUTY	PRE SLEEP	PFC	PRE SLEEP			SLEEP						POST SLEEP											
	MS2 CHANG-DIAZ	OFF DUTY	PRE SLEEP - GIRAPFC		PRE SLEEP - GIRA		SLEEP						POST SLEEP - GIRA												
E X P - 4	MS3 WALZ	PRE SLEEP			SLEEP						POST SLEEP														
	MS4 BURSCH	PRE SLEEP			SLEEP						POST SLEEP														
	MS5 ONUFRIENKO	PRE SLEEP			SLEEP						POST SLEEP														
I S S	CDR EXP5 KORZUN	EXERCISE- VELO+RED		PMCDPC	PRE SLEEP			SLEEP																	
	FE-1 EXP5 WHITSON	PFC	OFF DUTY	PMCDPC	PRE SLEEP			SLEEP																	
	FE-2 EXP5 TRESCHEV	OFF DUTY		PMCDPC	PRE SLEEP			SLEEP																	
DAY/NIGHT																									
ORBIT		158			159			160			161			162			163			164			165		
DAILY ORBIT		8			9			10			11			12			13			14			15		
TDRS																									
ORB ATT		-ZLV +YVV																							
ISS ATT		-XPH +ZNN TEA																							
NOTES		*OFF DUTY *HTR DEACT																							

# STS-111/UF2 JNT MSN SHORT TERM PLAN

MET Day 010 010/00 01 02 03 04 05 06 07 08 09 10 11 12  
 GMT 06/10/02 06/11 01 02 03 04 05 06 07 08 09 10 11 12

S			
P	BTR-OPERATION EXPRS1-SYS-PWR/THERM EXPRS4-SYS-PWR/THERM MAMS-P/L-NOM OPS SAMS-ICU/D1-OPS SAMS-RTS/D1-OPS SAMS-RTS/D2-OPS PEO-1 PEO-2 TEX-25 PCG STES-008-GROWTH		BTR-OF EXPRS1 EXPRS4 MAMS-F SAMS-I SAMS-R SAMS-R PEO-1 PEO-2 TEX-25 PCG ST
S	C&DH-INHIB VALID-CK HMS-PMC DPC PPS-SA-FTHR	HC&DH-INHIB VALID-CK  --- HMS-PMC  --- DPC  --- PPS-SA-FTHR	
K			
R			
M	C&DH-INHIB VALID-CK	HC&DH-INHIB VALID-CK	
	ISS ATT	-XPH +ZNN TEA	
I	RS GND		
S	DAY/NIGHT	-VHF                      -VHF                      -VHF                      -VHF-VHF                      -VHF	
S	ORBIT		
	DAILY ORBIT		
	TDRS AVAIL		
	NOTES		



GMT 06/11/02  
 MET Day 010

S T S - 1 1 1	<b>FD12</b> CDR COCKRELL	POST SLEEP	APU HTR ACT	CS AT BOW IN	MPLC MU	FCS C/O	RCS H/F	PILOT OPS	EXERCISE	CABIN STOW	D/O BRIEF	MEAL	LM-1L COMM	MEAL	CABIN STOW	MZLV RV	CS AT BOW IN	OFF DUTY	L-1 COMM CHK DFR	OFF DUTY
	PLT LOCKHART	POST SLEEP	FILTER CLEANING	FCS C/O	RCS H/F	PILOT OPS	FES DUMP INIT	CABIN STOW	EXERCISE	CABIN STOW	D/O BRIEF	MEAL	CABIN STOW	POST EVA PREP	PSTVTS 2P	FES DUMP TERM	CABIN STOW	OFF DUTY		
	MS1 PERRIN	POST SLEEP	CABIN STOW			EXERCISE	LAUNCH ENTRY SUIT CK	RCMBNT SEAT S/U	ERGO STOW	D/O BRIEF	MEAL	POST EVA PREP	OFF DUTY				*			
	MS2 CHANG-DIAZ	POST SLEEP - GIRA	CABIN STOW	FCS C/O	RCS H/F	PILOT OPS	CABIN STOW	EXERCISE	D/O BRIEF	MEAL	POST EVA PREP	COM M 2	PSTVTS 2P	FES DUMP INIT	CS AT BOW IN	OFF DUTY				
	MS3 WALZ	POST SLEEP	EXERCISE	MDDK	CABIN STOW			LAUNCH ENTRY SUIT CK	RCMBNT SEAT S/U	ERGO STOW	D/O BRIEF	MEAL	OFF DUTY	PEAVO ENT	OFF DUTY					
	MS4 BURSCH	POST SLEEP	CABIN STOW	EXERCISE	CABIN STOW			LAUNCH ENTRY SUIT CK	RCMBNT SEAT S/U	CABIN STOW	D/O BRIEF	MEAL	OFF DUTY	PEAVO ENT	OFF DUTY					
	MS5 ONUFRIENKO	POST SLEEP	CABIN STOW	EXERCISE	CABIN STOW			LAUNCH ENTRY SUIT CK	RCMBNT SEAT S/U	CABIN STOW	D/O BRIEF	MEAL	OFF DUTY	PEAVO ENT	OFF DUTY					

DAY/NIGHT	166		167		168		169		170		171		172		173	
ORBIT	1		2		3		4		5		6		7		8	
DAILY ORBIT	1		2		3		4		5		6		7		8	
TDRS	W		E		W		E		W		E		W		E	
ATT																

\*HTR ACT      -ZLV +YVV      \* FES DUMP INIT      \* FES DUMP TERM      -ZLV -YVV      \*PGSC STO

NOTES

GMT 06/11/02 06/12 01 02 03 04 05 06 07 08 09 10 11 12  
 MET Day 011 011/00 01 02 03 04 05 06 07 08 09 10 11 12

S T S - 1 1 1	CDR COCKRELL	OFF DUTY	PA PRE SLEEP	PMC A/G	PRE SLEEP	SLEEP	FD13 POST SLEEP			
	PLT LOCKHART	OFF DUTY			PRE SLEEP	SLEEP	POST SLEEP			
	MS1 PERRIN	PGSC STOW PART I	K U S T O W		PRE SLEEP	SLEEP	POST SLEEP			
	MS2 CHANG-DIAZ	OFF DUTY			PRE SLEEP - GIRA	SLEEP	POST SLEEP - GIRA			
	MS3 WALZ	OFF DUTY	M D D K		PRE SLEEP	SLEEP	POST SLEEP			
	MS4 BURSCH	OFF DUTY			PRE SLEEP	SLEEP	POST SLEEP			
	MS5 ONUFRIENKO	OFF DUTY			PRE SLEEP	SLEEP	POST SLEEP			
DAY/NIGHT		[Day/Night Cycle Bar]								
ORBIT		173	174	175	176	177	178	179	180	181
DAILY ORBIT		8	9	10	11	12	13	14	15	16
TDRS		[TDRS Activity Bars]								
ATT		*HTR DEACT -ZLV -YVV *HTR ACT								
NOTES										

GMT 06/12/02  
 MET Day 011

STS-111	CDR COCKRELL	POST SLEEP	MAGR ENT S/U	GRWRUP	IMU MNVR	I M L U I G N	M N X S I	DEORBIT PREP	D / O  B U R N	K S C  L N D G *
	PLT LOCKHART	POST SLEEP	MAGR ENT S/U	GRWRUP	POST SLEEP	H 2 0 O T K	A P C U	DEORBIT PREP		
	MS1 PERRIN	POST SLEEP			PGSC STOW PART II	STW CLR PRT	O I U	DEORBIT PREP		
	MS2 CHANG-DIAZ	POST SLEEP - GIRA			P S D S E A T V O 6	I E P C	M A T R O H	DEORBIT PREP		
	MS3 WALZ	POST SLEEP			M D D K	O S C T A O C W		DEORBIT PREP		
	MS4 BURSCH	POST SLEEP			BPS H20 RMVL	B D P E S S C E N T		DEORBIT PREP		
	MS5 ONUFRIENKO	POST SLEEP				A I R S A M P		DEORBIT PREP		

DAY/NIGHT	ORBIT	181	182	183	184	185	186	187	188	189
DAILY ORBIT		16	1	2	3	4	5	6	7	8
TDRS	W E									
ATT		-ZLV -YVV	IMU		-XSI	COMM		ENTRY		

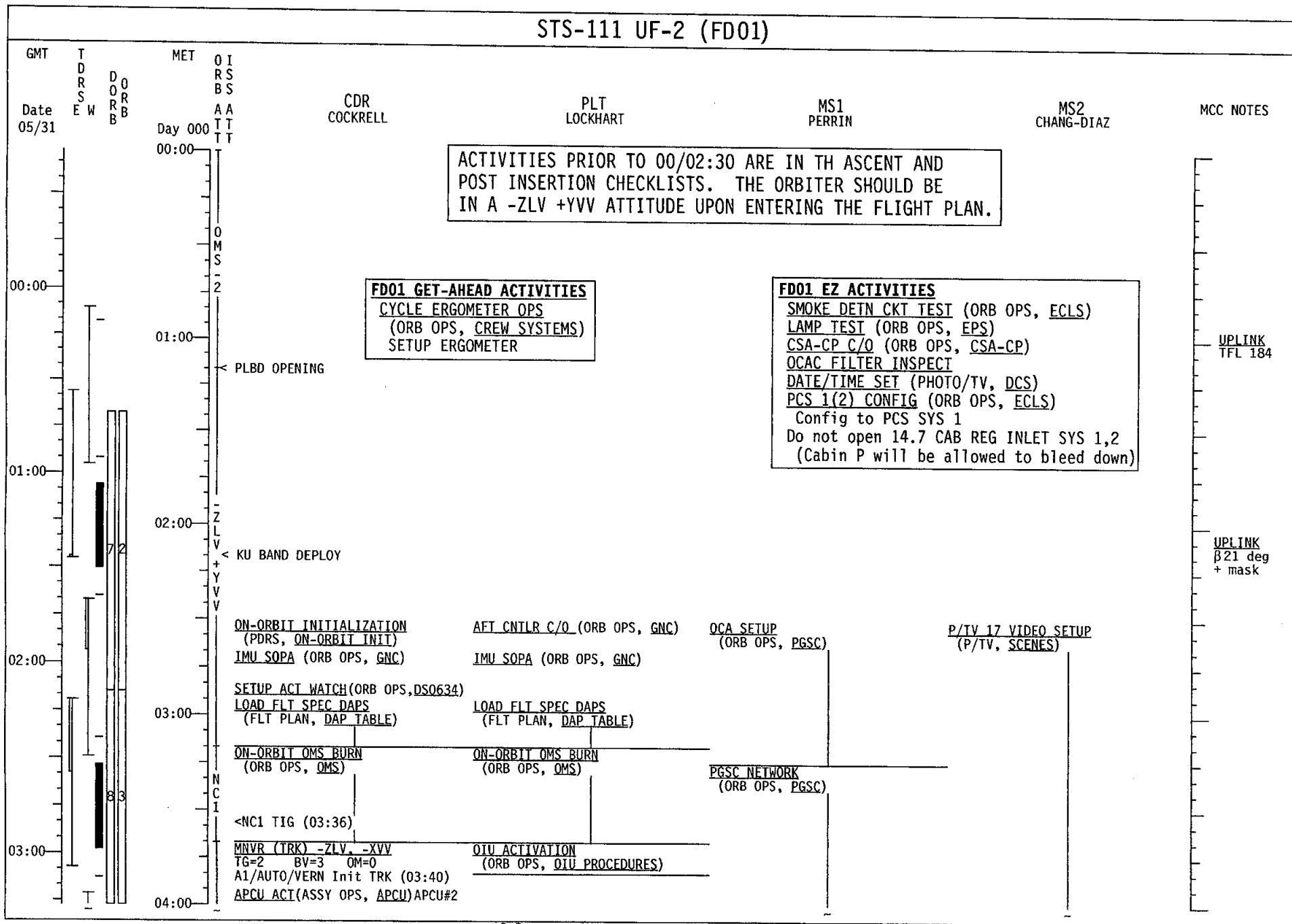
NOTES \* KSC TIG @ 11/17:58  
 \* KSC LNDG @ 11/19:04

DETAILED TIMELINE

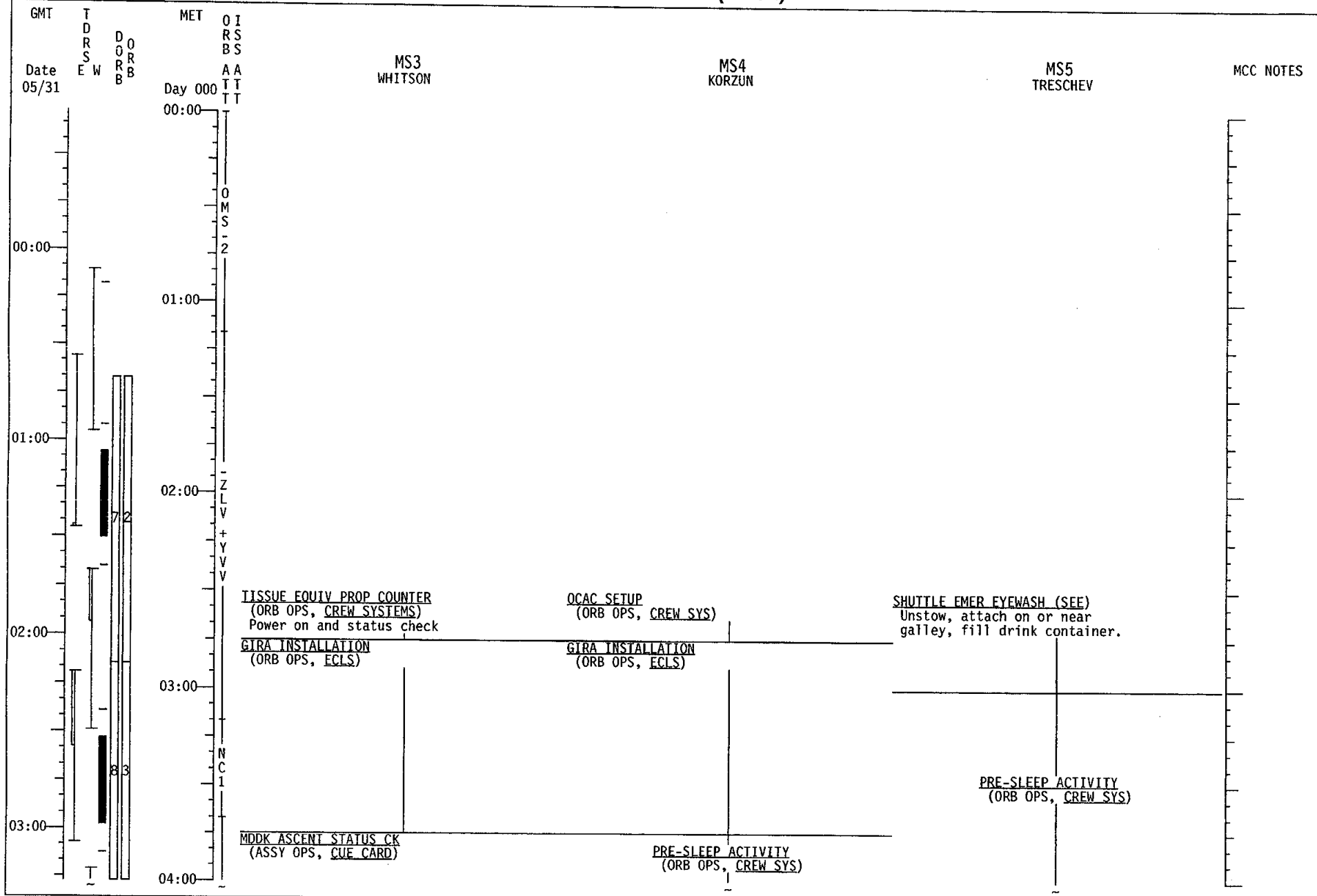
DETAILED  
TIMELINE

# DETAILED TIMELINE

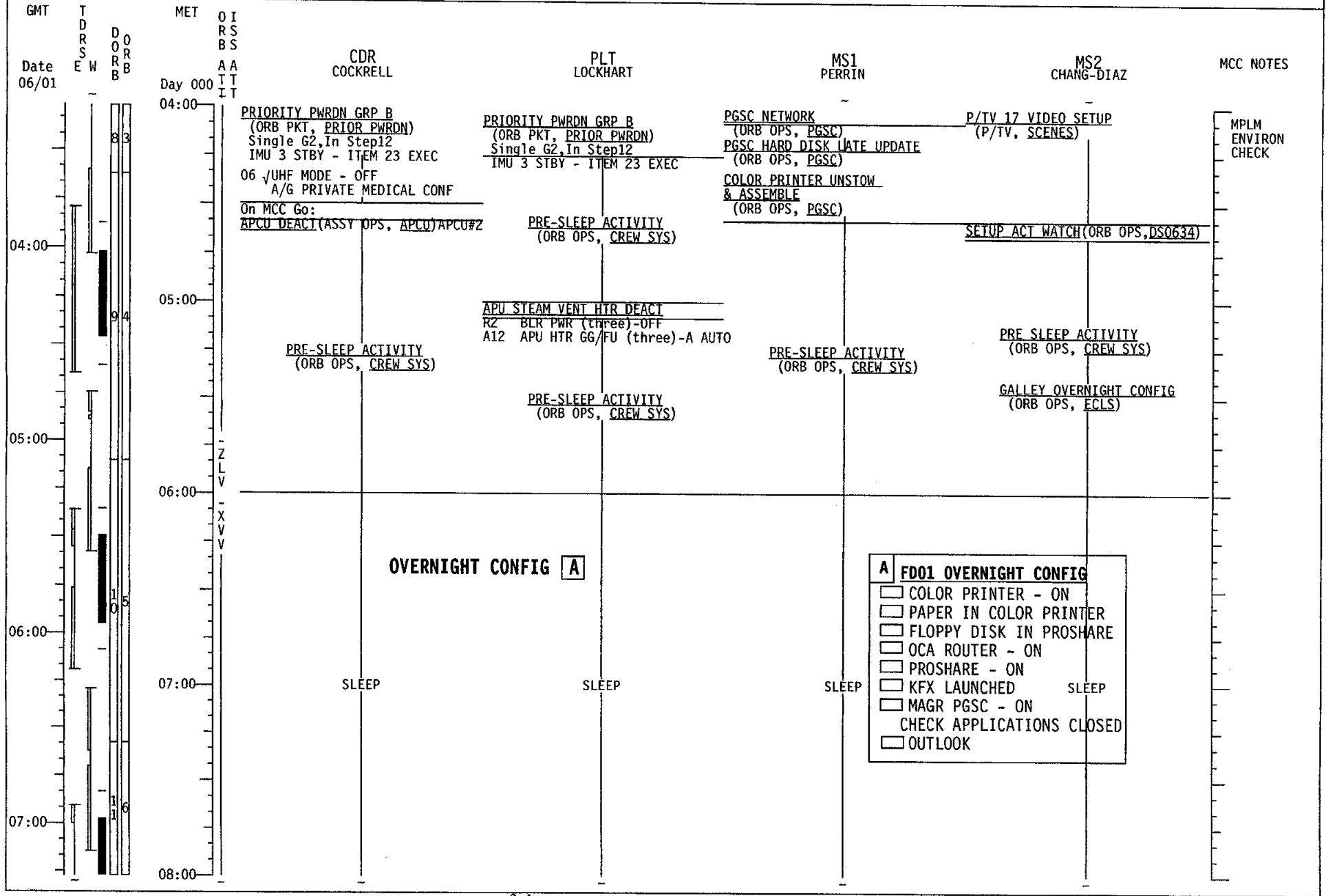
## STS-111 UF-2 (FD01)



# STS-111 UF-2 (FD01)



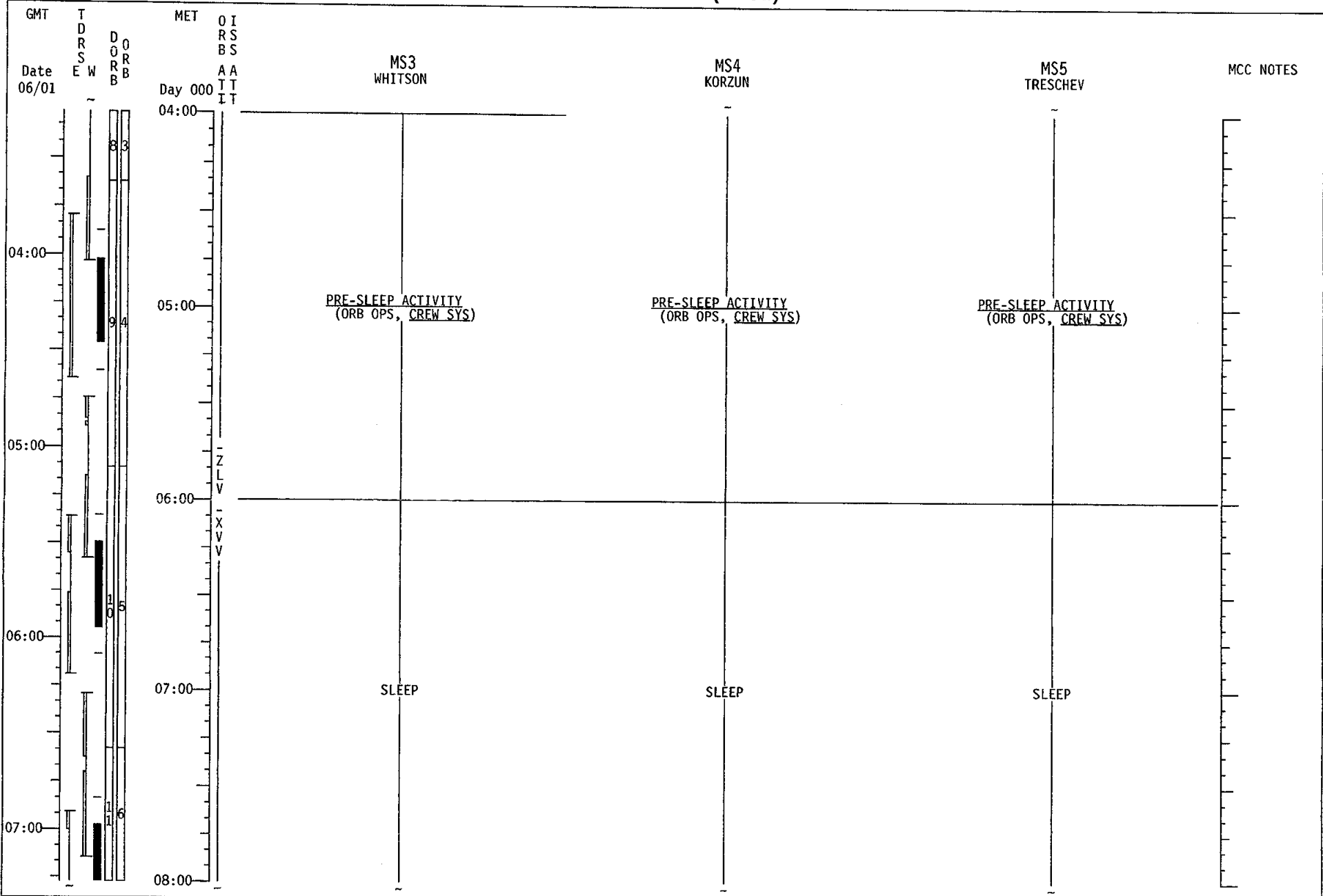
# STS-111 UF-2 (FD01)



**A FD01 OVERNIGHT CONFIG**

- COLOR PRINTER - ON
- PAPER IN COLOR PRINTER
- FLOPPY DISK IN PROSHARE
- OCA ROUTER - ON
- PROSHARE - ON
- KFX LAUNCHED
- MAGR PGSC - ON
- CHECK APPLICATIONS CLOSED
- OUTLOOK

# STS-111 UF-2 (FD01)

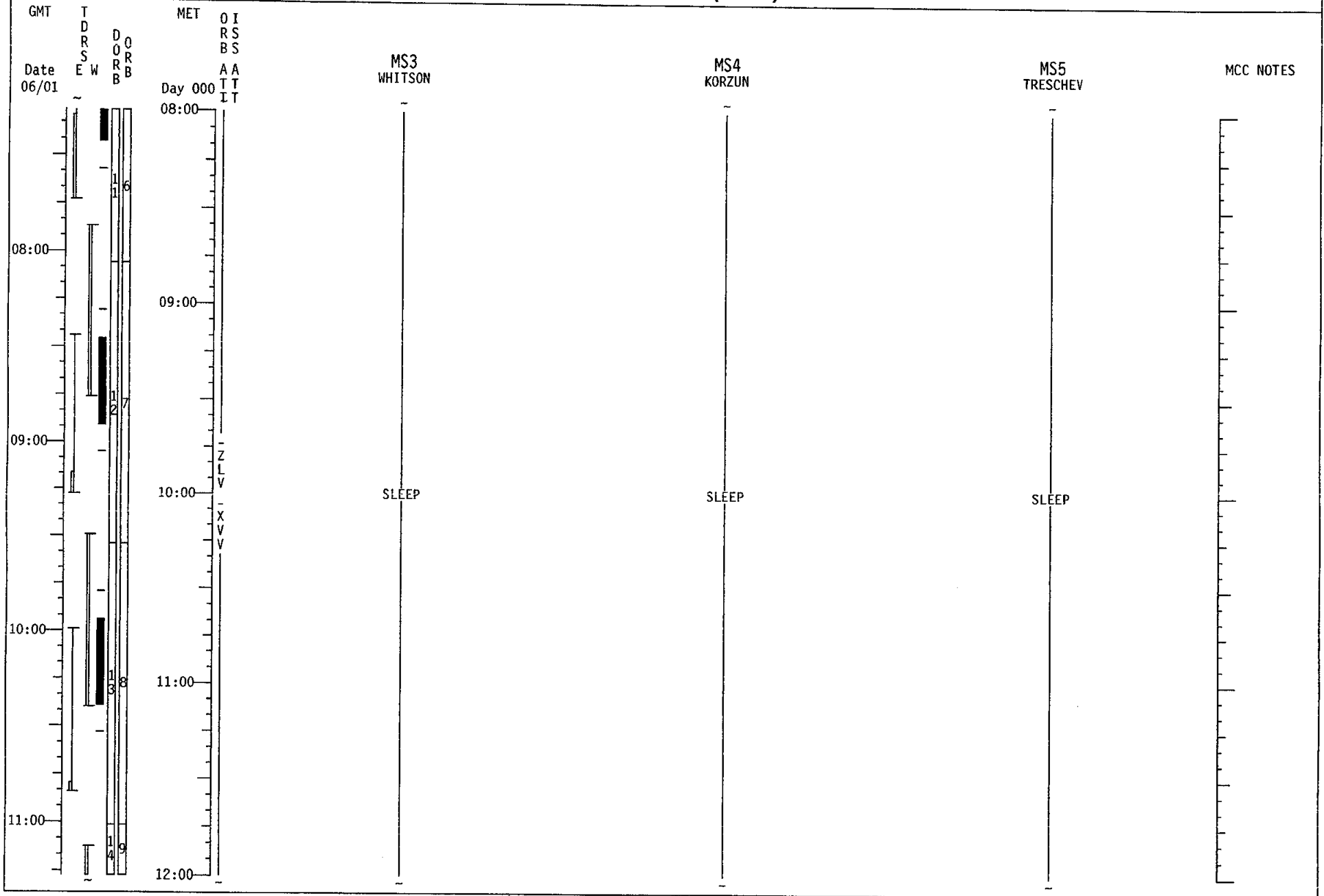




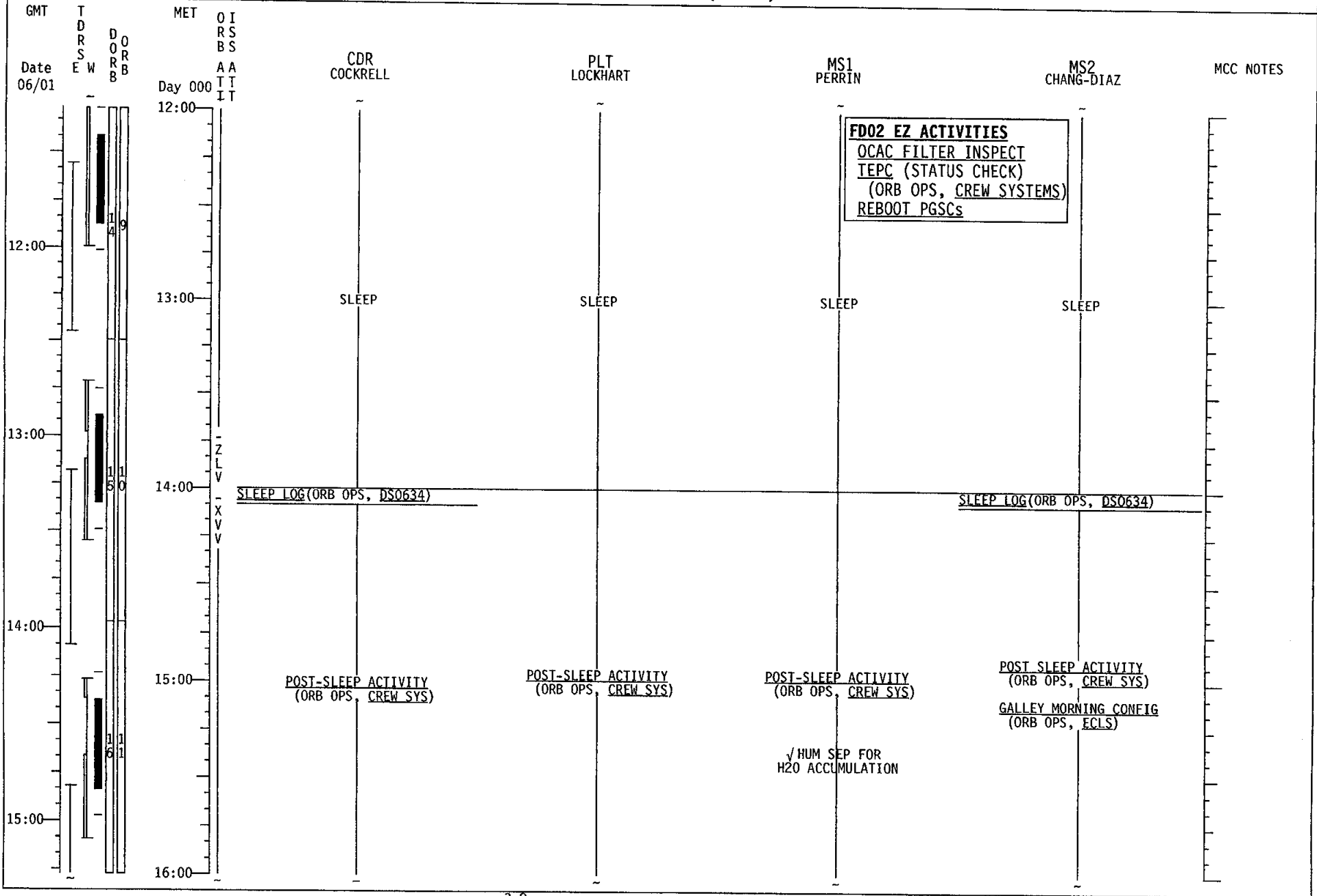
# STS-111 UF-2 (FD01)

GMT Date 06/01	TDRS E W	DORB B	MET Day 000 IT	OIRSBS AATT IT	CDR COCKRELL	PLT LOCKHART	MS1 PERRIN	MS2 CHANG-DIAZ	MCC NOTES
			08:00						
			08:00						
			09:00						
			09:00						
			10:00	Z L V	SLEEP	SLEEP	SLEEP	SLEEP	
			10:00	X V V					
			11:00						
			11:00						
			12:00						

# STS-111 UF-2 (FD01)

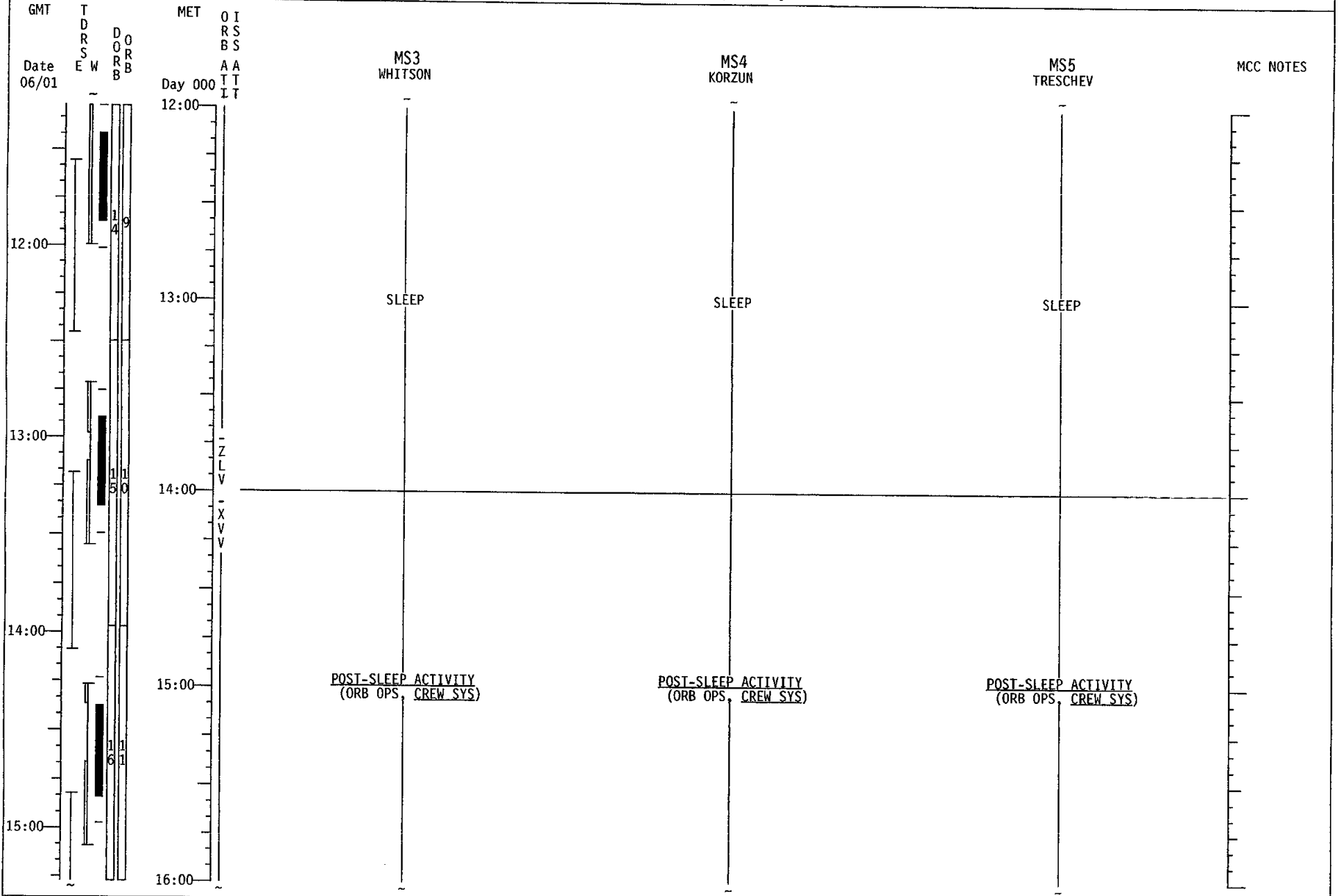


# STS-111 UF-2 (FD02)

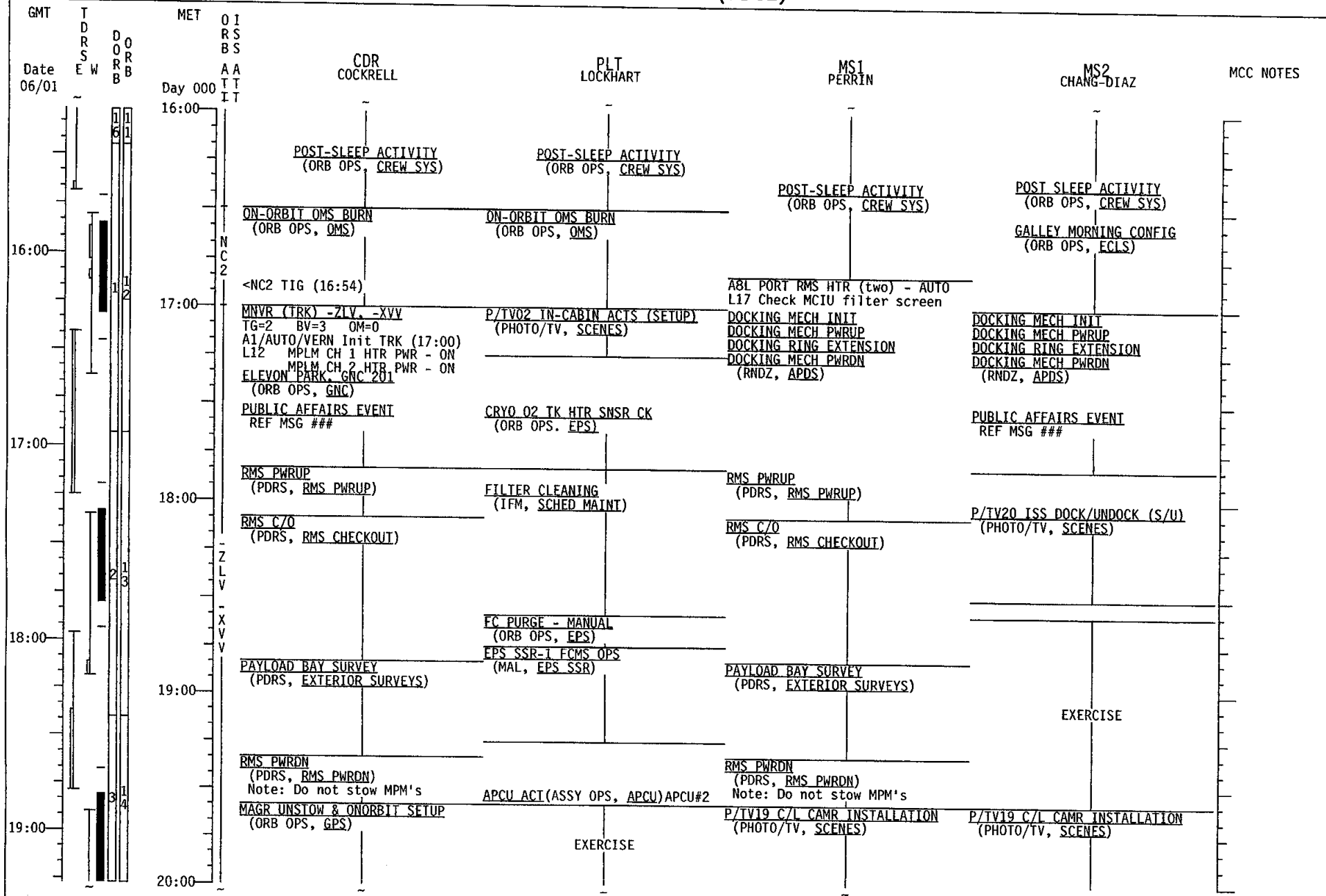


**FD02 EZ ACTIVITIES**  
 OCAC FILTER INSPECT  
 TEPC (STATUS CHECK)  
 (ORB OPS, CREW SYSTEMS)  
 REBOOT PGSCs

# STS-111 UF-2 (FD02)



# STS-111 UF-2 (FD02)





# STS-111 UF-2 (FD02)

GMT	TDRS E W	DORRB	MET Day 000	OIRS AA TT IT	CDR COCKRELL	PLT LOCKHART	MS1 PERRIN	MS2 CHANG-DIAZ	MCC NOTES
06/01			20:00		<u>MAGR UNSTOW &amp; ONORBIT SETUP</u> (ORB OPS, GPS)		<u>P/TV19 C/L CAMR INSTALLATION</u> (PHOTO/TV, SCENES)	<u>P/TV19 C/L CAMR INSTALLATION</u> (PHOTO/TV, SCENES)	MPLM PRESSURE CHECK
						EXERCISE	<u>RNDZ PGSC SETUP</u> (REF DATA, UTIL PWR) Use PGSC Usage Chart & Plug-in-plan	<u>RNDZ PGSC SETUP</u> (REF DATA, UTIL PWR) Use PGSC Usage Chart & Plug-in-plan	
			20:00		<u>ON-ORBIT +X RCS BURN</u> (ORB OPS, RCS)	<u>ON-ORBIT +X RCS BURN</u> (ORB OPS, RCS)	<u>AIRLOCK PREP</u> (EVA, AIRLOCK CONFIG)	<u>AIRLOCK PREP</u> (EVA, AIRLOCK CONFIG)	
			21:00		<NPC TIG (21:01) <u>MNVR (TRK) -ZLV, -XVV</u> TG=2 BV=3 OM=0 A1/AUTO/VERN Init TRK (21:05)				
			21:00		MEAL	MEAL	MEAL	MEAL	
			22:00		MEAL				
			22:00			<u>EMU CHECKOUT</u> (EVA, CHECKOUTS) Perform for 2 EMUs	<u>EMU CHECKOUT</u> (EVA, CHECKOUTS) Perform for 2 EMUs	<u>EMU CHECKOUT</u> (EVA, CHECKOUTS) Perform for 2 EMUs	
			22:00		On MCC Go: <u>APCU DEACT(ASSY OPS, APCU)APCU#2</u> <u>OPS 2 GPS TEST</u> (ORB OPS, GPS)				
			23:00		R2 <u>BLR CNTLR/HTR (three) - B</u>				
			23:00		EXERCISE	<u>EMU PREP FOR ISS TRANSFER</u> (EVA, AIRLOCK CONFIG)	<u>EMU PREP FOR ISS TRANSFER</u> (EVA, AIRLOCK CONFIG)	<u>EMU PREP FOR ISS TRANSFER</u> (EVA, AIRLOCK CONFIG)	
			00:00						

# STS-111 UF-2 (FD02)

GMT Date 06/01	TDRS E W	DORB B	MET Day 000	OIRSBS AA TT TT	MS3 WHITSON ~ EXERCISE	MS4 KORZUN EXERCISE	MS5 TRESCHEV MEAL	MCC NOTES
			20:00					
			20:00					
			21:00					
			21:00					
			22:00					
			22:00					
			23:00					
			23:00					
			00:00					



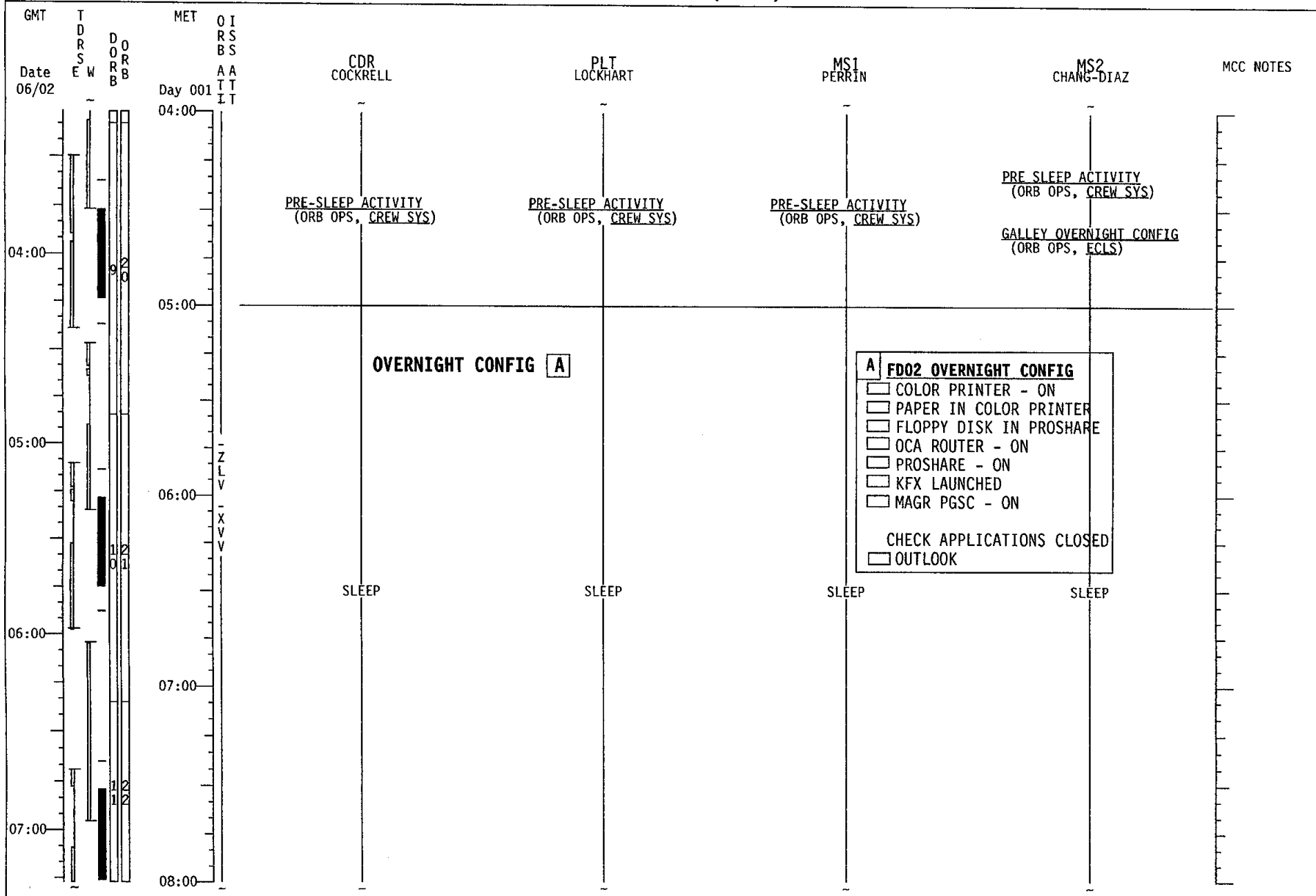
# STS-111 UF-2 (FD02)

GMT Date 06/01	TDRS EW	DORB 17	MET Day 001	OIRSBS AA TT IT	CDR COCKRELL	PLT LOCKHART	MS1 PERRIN	MS2 CHANG-DIAZ	MCC NOTES
00:00					EXERCISE	EMU PREP FOR ISS TRANSFER (EVA, AIRLOCK CONFIG)	EMU PREP FOR ISS TRANSFER (EVA, AIRLOCK CONFIG)	EMU PREP FOR ISS TRANSFER (EVA, AIRLOCK CONFIG)	
00:00				ZLV	OFF DUTY	OFF DUTY	OFF DUTY	OFF DUTY	
01:00				XVV					
01:00					ON-ORBIT OMS BURN (ORB OPS, OMS)	ON-ORBIT OMS BURN (ORB OPS, OMS)			
01:00				NC3	<NC3 TIG (01:45)				
02:00					MNVR (TRK) -ZLV, -XVV TG=2 BV=3 OM=0 A1/AUTO/VERN Init TRK (01:50) L12 MPLM CH 1 HTR PWR - OFF MPLM CH 2 HTR PWR - OFF	RNDZ TOOLS CHECKOUT (RNDZ, RNDZ TOOLS)	EXERCISE	RNDZ TOOLS CHECKOUT (RNDZ, RNDZ TOOLS)	
02:00					PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)				
03:00				ZLV		PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	PRE SLEEP ACTIVITY (ORB OPS, CREW SYS)	
03:00				XVV	VIDEO CONFERENCING (ORB OPS, PGSC) - PMC				
03:00					FUTR LOAD MNVR (TRK) -ZLV, +YVV TG=2 BV=3 OM=270 A/AUTO/VERN Init TRK (01/11:45)		√ HUM SEP FOR H2O ACCUMULATION	GALLEY OVERNIGHT CONFIG (ORB OPS, ECLS)	
04:00					PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)				

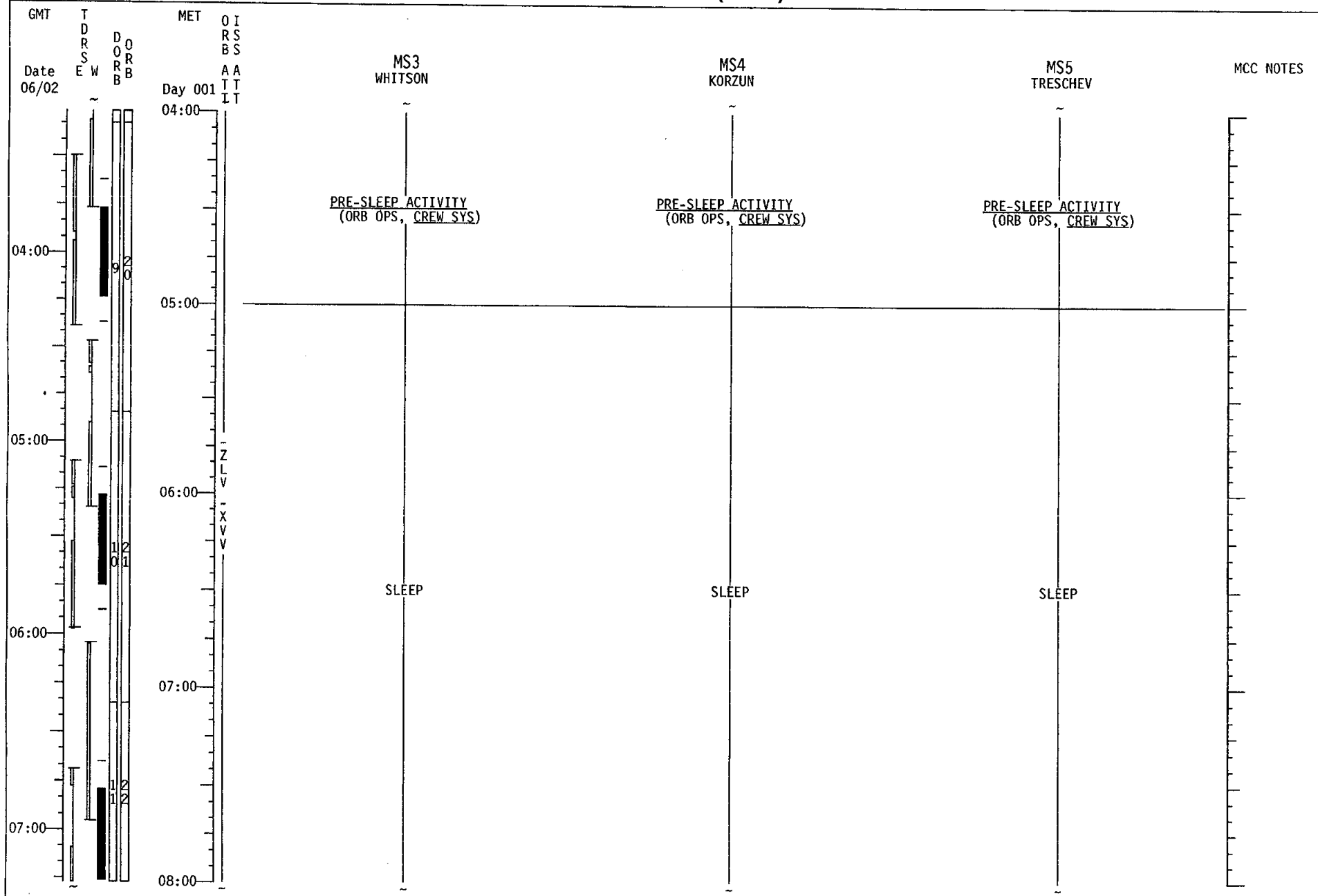
# STS-111 UF-2 (FD02)

GMT	TDRSEW	DORB	MET	OIRSBS	MS3 WHITSON	MS4 KORZUN	MS5 TRESCHEV	MCC NOTES
Date 06/01			Day 001	AATTIT				
00:00		6	00:00	ZLV	OFF DUTY	OFF DUTY	OFF DUTY	
01:00		7	01:00	XVV				
02:00		8	02:00	N C 3	MDDK ASCENT STATUS CK (ASSY OPS, CUE CARD)			
03:00		8	03:00	ZLV	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	
04:00		9	04:00	XVV				

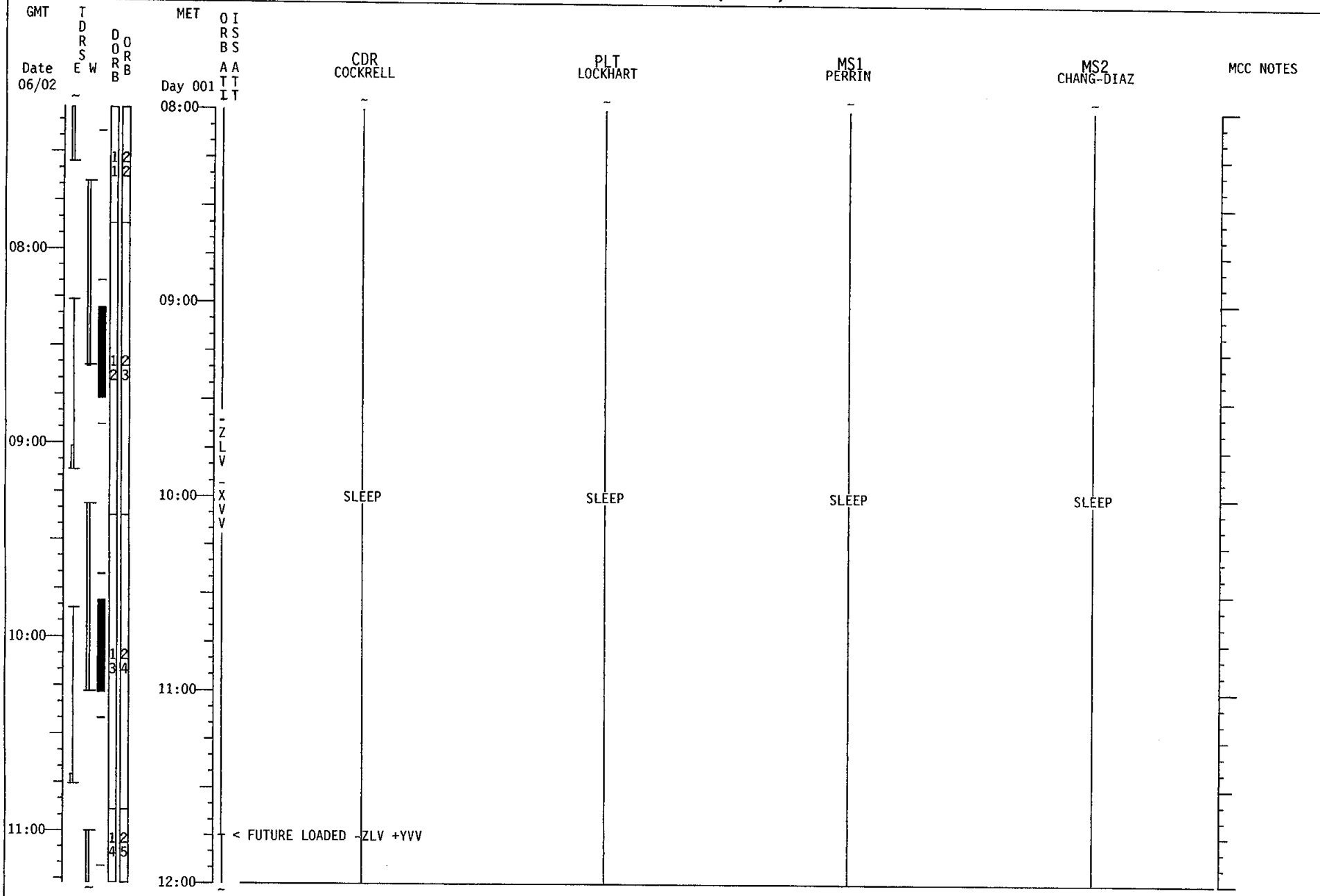
# STS-111 UF-2 (FD02)



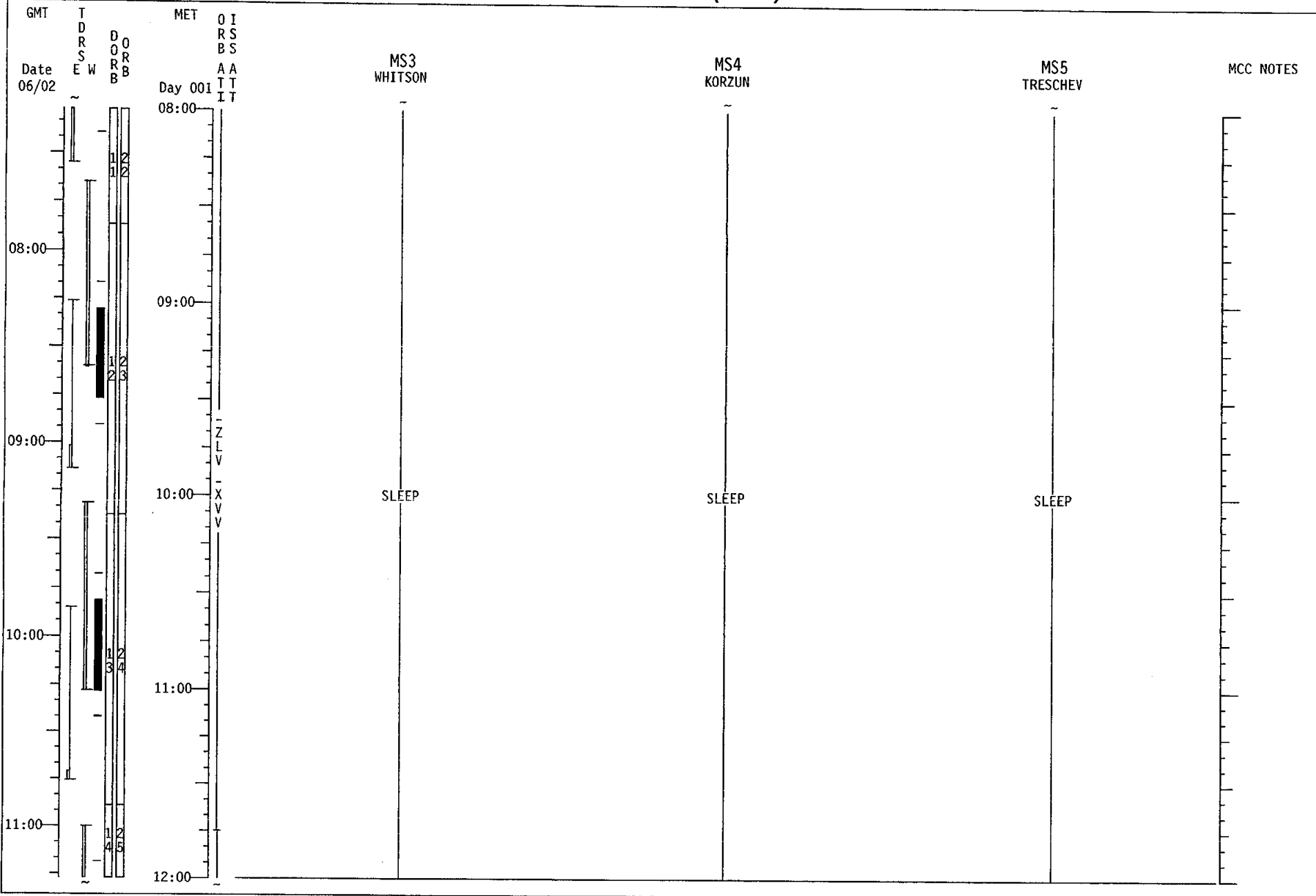
# STS-111 UF-2 (FD02)



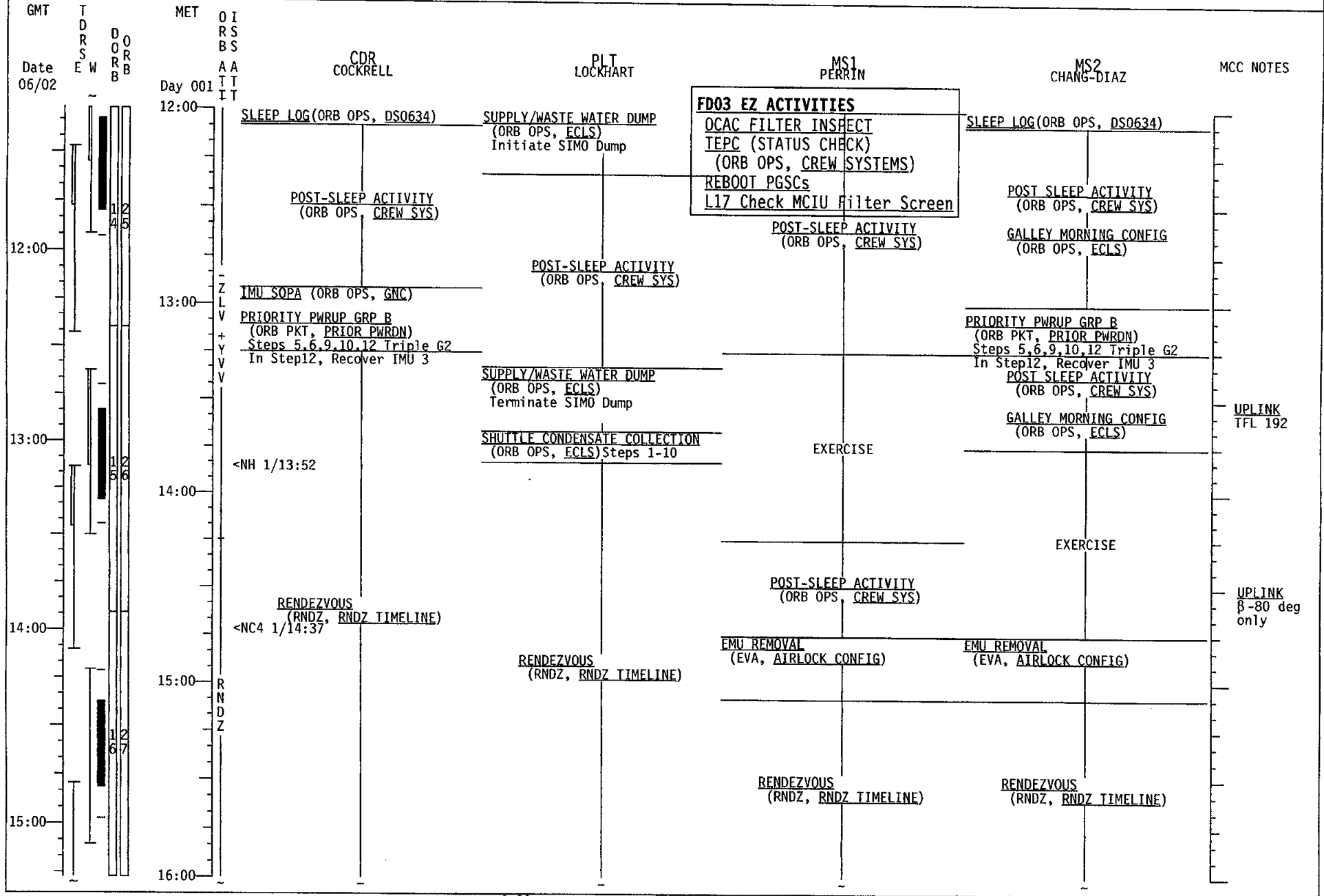
# STS-111 UF-2 (FD02)



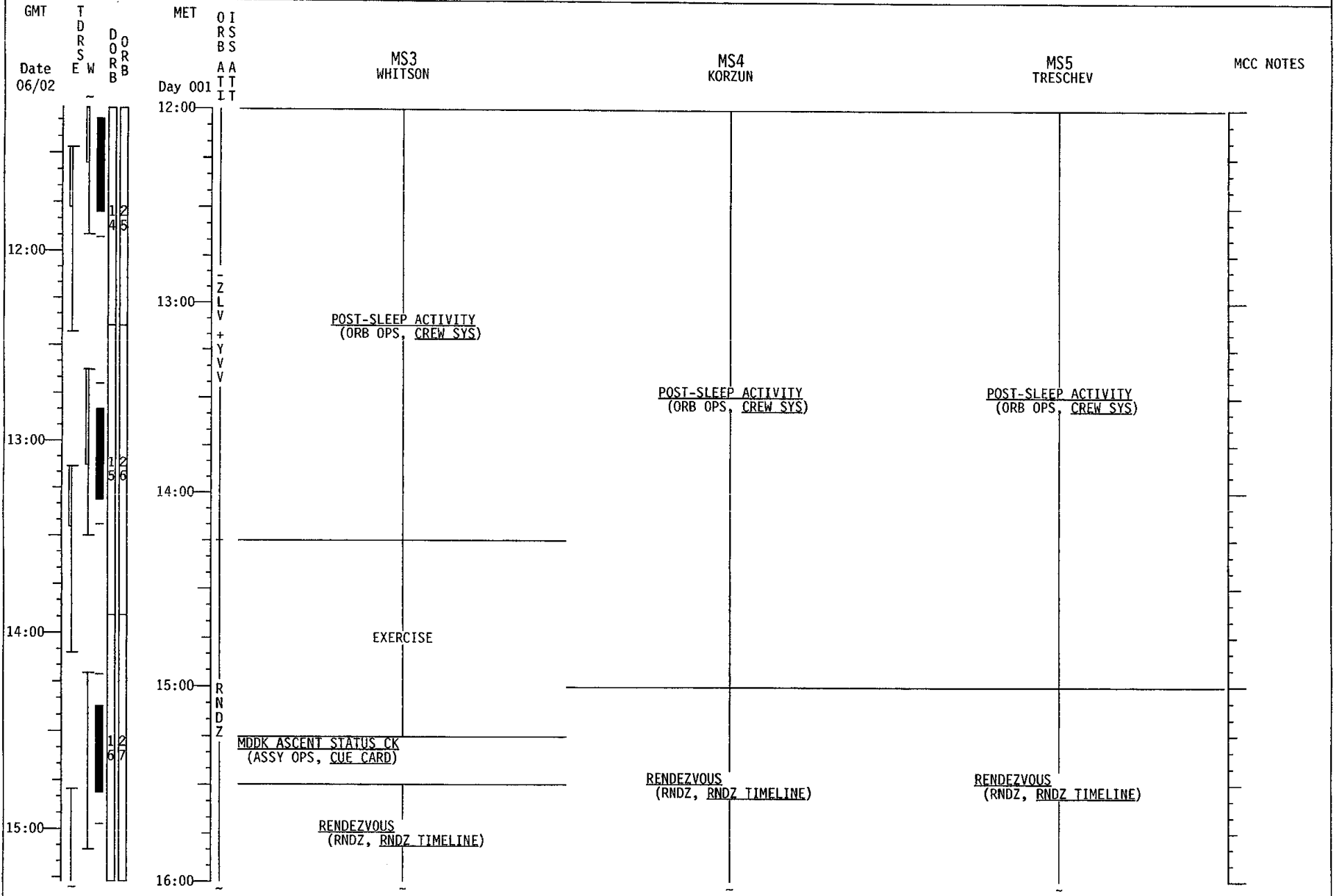
# STS-111 UF-2 (FD02)



# STS-111 UF-2 (FD03)



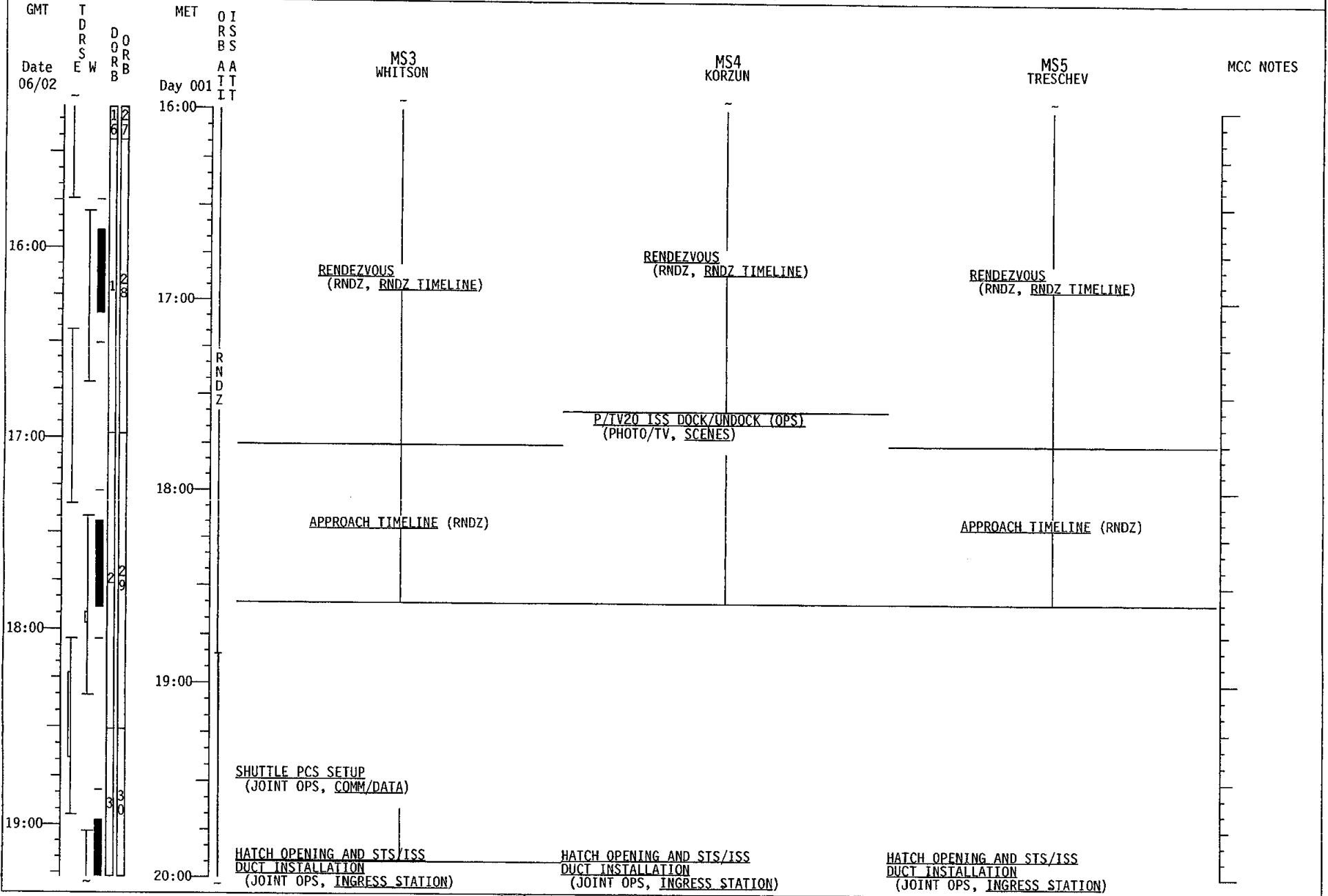
# STS-111 UF-2 (FD03)







# STS-111 UF-2 (FD03)

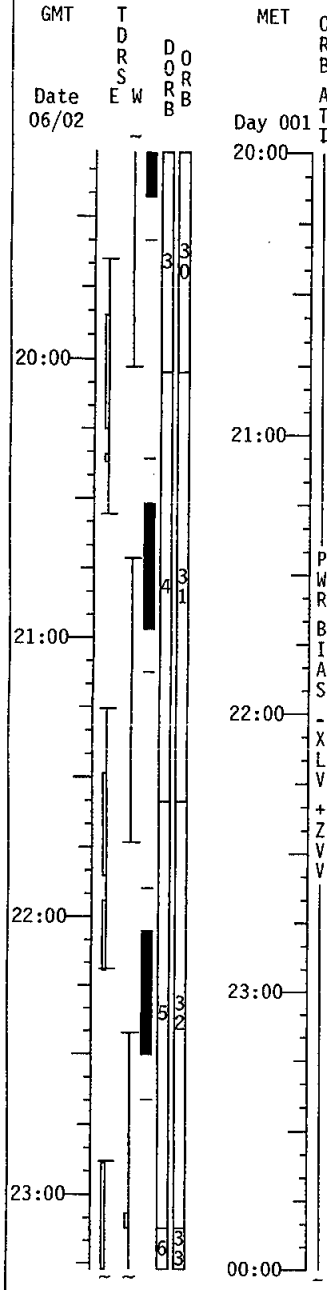


# STS-111 UF-2 (FD03)

GMT Date 06/02	TDRS EW	DORB ORB	MET Day 001	OIRSBS AA TT TT	CDR COCKRELL	PLT LOCKHART	MS1 PERRIN	MS2 CHANG-DIAZ	MCC NOTES
			20:00		HATCH OPENING AND STS/ISS DUCT INSTALLATION (JOINT OPS, INGRESS STATION)	HATCH OPENING AND STS/ISS DUCT INSTALLATION (JOINT OPS, INGRESS STATION)	HATCH OPENING AND STS/ISS DUCT INSTALLATION (JOINT OPS, INGRESS STATION)	P/TV21 ISS INTERNAL OPS (OPS) (PHOTO/TV, SCENES)	
			20:00		WELCOME CEREMONY	WELCOME CEREMONY	WELCOME CEREMONY	WELCOME CEREMONY	
			21:00		SAFETY BRIEFING	SAFETY BRIEFING	SAFETY BRIEFING	SAFETY BRIEFING	
			21:00		STELSYS SAMPLE TRANSFER (ASSY OPS, TRANSFER)	PGSC NETWORK RECONFIG Configure PGSCs	EVA TOOL TRANSFER TO ISS (EVA, AIRLOCK CONFIG)	EVA TOOL TRANSFER TO ISS (EVA, AIRLOCK CONFIG)	
			22:00		ACTIVATION (CUE CARD, PLAYBACK)	EXERCISE	EMU TRANSFER (TRANSFER LIST BOOK, XFER LIST) Items xxx-xxx	EMU TRANSFER (TRANSFER LIST BOOK, XFER LIST) Items xxx-xxx	
			22:00		PLAYBACK (CUE CARD, PLAYBACK) KU TDRX (MM:SS-MM:SS)		LTA RESTRAINT STRAP REMOVAL (EVA, AIRLOCK CONFIG)	LTA RESTRAINT STRAP REMOVAL (EVA, AIRLOCK CONFIG)	
			22:00		P/TV 16 CBCS CHECKOUT (PHOTO/TV, SCENES)	TRANSFER Ref. MDDK TRANSFER LIST	EMU TO A/L INTERFACE CHECK (ISS EVA, CHECKOUTS) Chang Diaz's EMU	EMU TO A/L INTERFACE CHECK (ISS EVA, CHECKOUTS) Chang Diaz's EMU	
			23:00		APCU ACT (ASSY OPS, APCU) APCU#2 MAGR ONORBIT SETUP (ORB OPS, GPS) Steps 4-7		EMU RESIZE (EVA, FS TIMELINES)	EMU RESIZE (EVA, FS TIMELINES)	
			23:00		On MCC Go: APCU DEACT (ASSY OPS, APCU) APCU#2 CPCG-H TRANSFER ISS TO MDDK (ASSY OPS, TRANSFER)	REBA INSTALL (ISS EVA, EMU MAINT/RECHARGE) REBA POWERED H/W CHECKOUT (EVA, CHECKOUTS)	REBA INSTALL (ISS EVA, EMU MAINT/RECHARGE) REBA POWERED H/W CHECKOUT (EVA, CHECKOUTS)	REBA INSTALL (ISS EVA, EMU MAINT/RECHARGE) REBA POWERED H/W CHECKOUT (EVA, CHECKOUTS)	
			23:00			P/TV18 EVA CAMR SETUP (PHOTO/TV, SCENES)	P/TV18 EVA CAMR SETUP (PHOTO/TV, SCENES)	P/TV18 EVA CAMR SETUP (PHOTO/TV, SCENES)	
			00:00						MPLM PRESSURE CHECK

# STS-111 UF-2 (FD03)

GMT	TDRS EW	DORB	MET	OIRSBS AA TT IT	MS3 WHITSON	MS4 KORZUN	MS5 TRESCHEV	MCC NOTES
Date 06/02			Day 001					
20:00					<u>HATCH OPENING AND STS/ISS DUCT INSTALLATION</u> (JOINT OPS, <u>INGRESS STATION</u> )	<u>HATCH OPENING AND STS/ISS DUCT INSTALLATION</u> (JOINT OPS, <u>INGRESS STATION</u> )	<u>HATCH OPENING AND STS/ISS DUCT INSTALLATION</u> (JOINT OPS, <u>INGRESS STATION</u> )	
					WELCOME CEREMONY	WELCOME CEREMONY	WELCOME CEREMONY	
20:00					SAFETY BRIEFING	SAFETY BRIEFING	SAFETY BRIEFING	
					<u>TRANSFER</u> Ref. MDDK TRANSFER LIST		<u>SOKOL LEAK CHECK</u> Ref. RODF	
21:00							<u>SPACESUIT AND GLOVE DRYOUT</u> Ref. RODF	
							<u>IELK INST &amp; C/O</u> Ref. RODF	
22:00						HANDOVER		
23:00							<u>TRANSFER</u> Ref. MDDK TRANSFER LIST	
00:00								



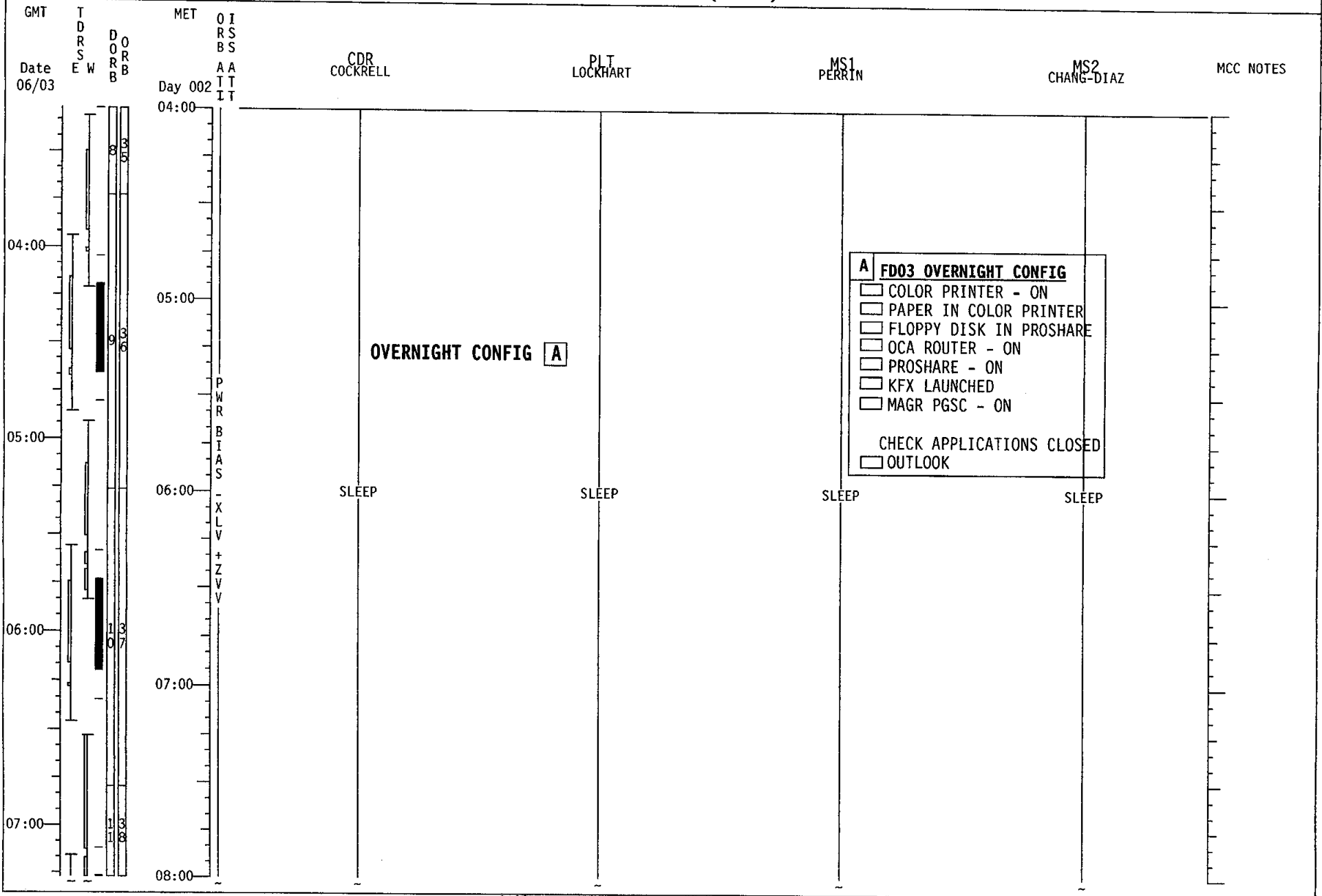
# STS-111 UF-2 (FD03)

GMT Date 06/02	T D R S E W	D O R B	MET Day 002	O I R S B S A A I T I T	CDR COCKRELL	P/T LOCKHART	MS1 PERRIN	MS2 CHANG-DIAZ	MCC NOTES
			00:00			P/TV18 EVA CAMR SETUP (PHOTO/TV, SCENES)	P/TV18 EVA CAMR SETUP (PHOTO/TV, SCENES)	P/TV18 EVA CAMR SETUP (PHOTO/TV, SCENES)	
			00:00		EXERCISE	TRANSFER Ref. MDDK TRANSFER LIST	TRANSFER Ref. MDDK TRANSFER LIST	KSC-GN2 FREEZER SAMPLE FREEZING OPERATION (ASSY OPS, PAYLOAD-NOMINAL)	
			00:00			KSC-GN2 FREEZER SAMPLE FREEZING OPERATION (ASSY OPS, PAYLOAD-NOMINAL)			
			01:00		DAILY STS/ISS CREW TRANSFER TAGUP				
			01:00		DAILY TRANSFER BRIEFING				
			01:00		PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)				
			02:00		VIDEO CONFERENCING (ORB OPS, PGSC) - PMC				
			02:00		L12 MPLM CH 1 HTR PWR - OFF MPLM CH 2 HTR PWR - OFF				
			02:00			PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	PRE SLEEP ACTIVITY (ORB OPS, CREW SYS)	
			02:00					GALLEY OVERNIGHT CONFIG (ORB OPS, ECLS)	
			03:00		PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)				
			04:00						

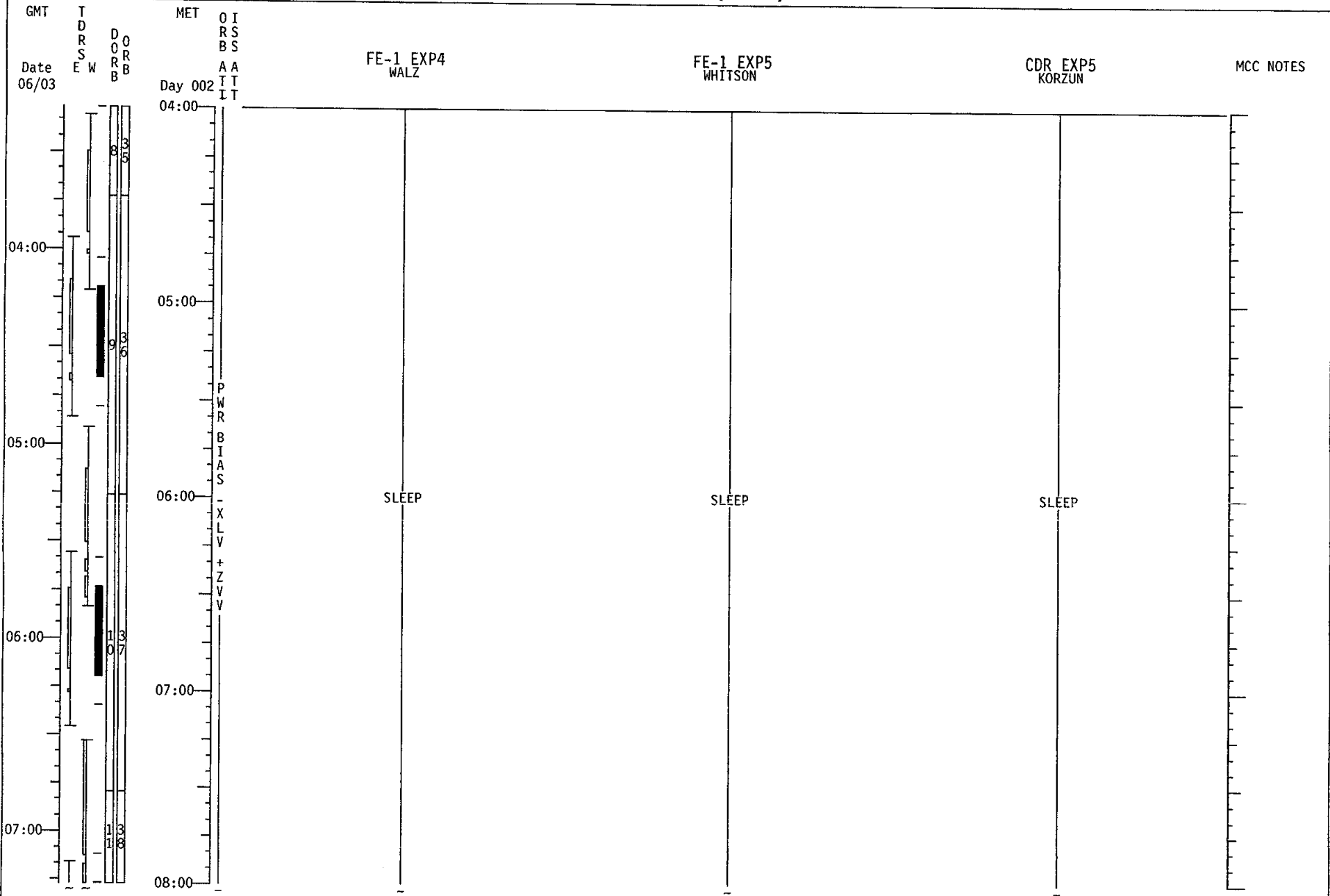
# STS-111 UF-2 (FD03)

GMT Date 06/02	TDRSEW DORRB	MET Day 002	OIRSBS AA TT LT	MS3 WHITSON	MS4 KORZUN	MS5 TRESCHEV	MCC NOTES
00:00				<u>TRANSFER</u> Ref. MDDK TRANSFER LIST	<u>TRANSFER</u> Ref. MDDK TRANSFER LIST	<u>TRANSFER</u> Ref. MDDK TRANSFER LIST	
00:00					<u>MDDK ASCENT STATUS CK</u> (ASSY OPS, CUE CARD) Step2	<u>SOKOL STOW</u> Ref. RODF	
00:00						<u>SOKOL GLOVE DRY</u> Ref. RODF	
01:00				PLAN REVIEW	PLAN REVIEW	PLAN REVIEW	
01:00						<u>SOKOL GLOVE STOW</u> Ref. RODF	
01:00				PREP WORK	PREP WORK	PREP WORK	
02:00				DAILY PLAN CONF	DAILY PLAN CONF	DAILY PLAN CONF	
02:00							
03:00				<u>PRE-SLEEP ACTIVITY</u> (ORB OPS, CREW SYS)	<u>PRE-SLEEP ACTIVITY</u> (ORB OPS, CREW SYS)	<u>PRE-SLEEP ACTIVITY</u> (ORB OPS, CREW SYS)	
03:00							
04:00							

# STS-111 UF-2 (FD03)



# STS-111 UF-2 (FD03)



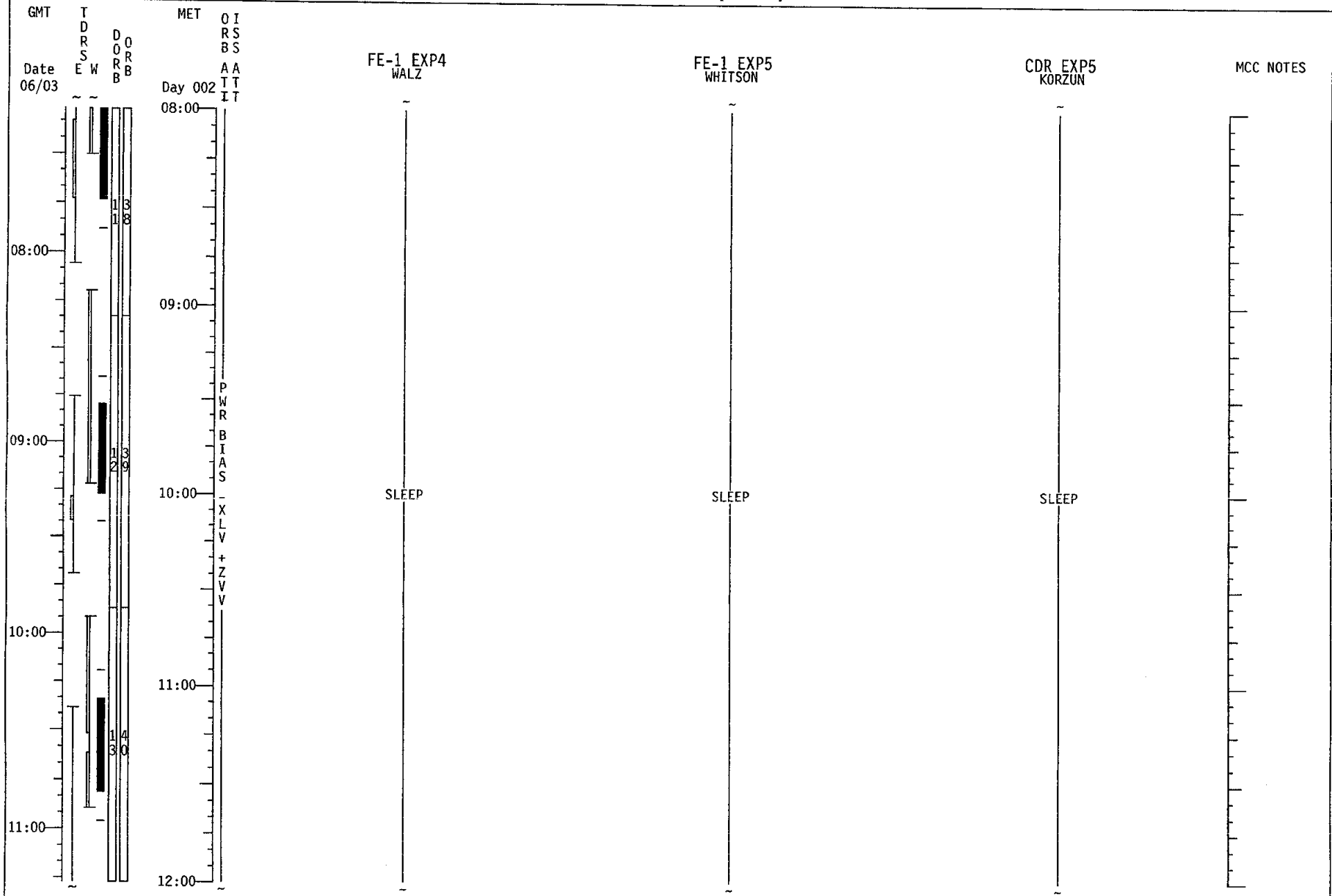
PWRBIAS XLV +ZVV



# STS-111 UF-2 (FD03)

GMT Date 06/03	TDRS E W	DORB B	MET Day 002	OIRSBS AA TT IT	CDR COCKRELL	PLT LOCKHART	MS1 PERRIN	MS2 CHANG-DIAZ	MCC NOTES
			08:00						
			08:00						
			09:00						
			09:00						
			10:00		SLEEP	SLEEP	SLEEP	SLEEP	
			10:00						
			11:00						
			11:00						
			12:00						

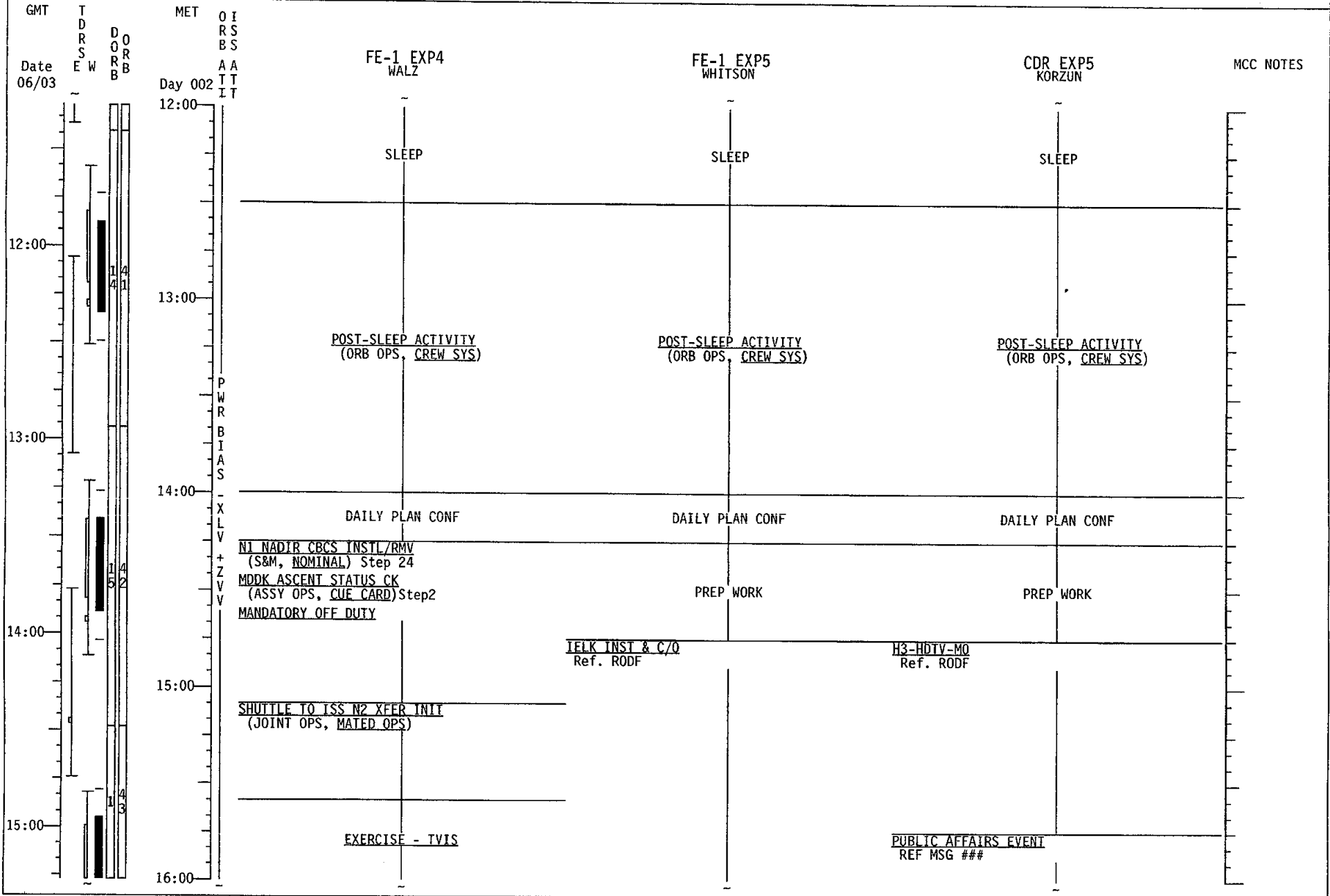
# STS-111 UF-2 (FD03)



# STS-111 UF-2 (FD04)

GMT	MET	CDR COCKRELL	PLT LOCKHART	MS1 PERRIN	MS2 CHANG-DIAZ	MCC NOTES
Date 06/03	Day 002	SLEEP LOG (ORB OPS, DS0634)		SLEEP LOG (ORB OPS, DS0634)		
		L12 MPLM CH 1 HTR PWR - ON MPLM CH 2 HTR PWR - ON				
12:00		POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)		<b>FD04 EZ ACTIVITIES</b> OCAC FILTER INSPECT TEPC (STATUS CHECK) (ORB OPS, CREW SYSTEMS) REBOOT PGSCs		
13:00			POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	POST SLEEP ACTIVITY (ORB OPS, CREW SYS)	
13:00	PWR	APCU ACT (ASSY OPS, APCU) APCU#2 ABL PORT RMS HTR (two) - AUTO L17 Check MCIU filter screen			GALLEY MORNING CONFIG (ORB OPS, ECLS)	MPLM PRESSURE CHECK
14:00	BIAS	On MCC Go: APCU DEACT (ASSY OPS, APCU) APCU#2				
14:00	XLV	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)				UPLINK TFL 184
14:00	ZVV	RMS PWRUP (PDRS, RMS PWRUP)	SHUTTLE/ISS H2O CNTR FILL (ORB OPS, ECLS) Perform EQUIP PREP and TEE HOSE PURGE	RMS PWRUP (PDRS, RMS PWRUP)	P/TV22 MPLM ASSEMBLY OPS (S/U) (PHOTO/TV, SCENES)	
15:00		L12 MPLM CH 1 HTR PWR - OFF MPLM CH 2 HTR PWR - OFF	Perform INIT FILL #1 Add Silver Biocide Only Samples req'd/Dur~55min			
15:00		NODE1 NADIR ACBM INSPECTION (PDRS, NOM MPLM INSTALL OPS)		NODE1 NADIR ACBM INSPECTION (PDRS, NOM MPLM INSTALL OPS)	SHUTTLE TO ISS N2 XFER INIT (JOINT OPS, MATED OPS)	UPLINK TFL 199
15:00		MPLM GRAPPLE IN BAY (PDRS, NOM MPLM INSTALL OPS)		MPLM GRAPPLE IN BAY (PDRS, NOM MPLM INSTALL OPS)		
15:00		MPLM ROEU DEMATE (PDRS, NOM MPLM INSTALL OPS)		MPLM ROEU DEMATE (PDRS, NOM MPLM INSTALL OPS)		
15:00		MPLM UNBERTH (PDRS, NOM MPLM INSTALL OPS)	EXERCISE	MPLM UNBERTH (PDRS, NOM MPLM INSTALL OPS)	TRANSFER Ref. MDDK TRANSFER LIST	
16:00						

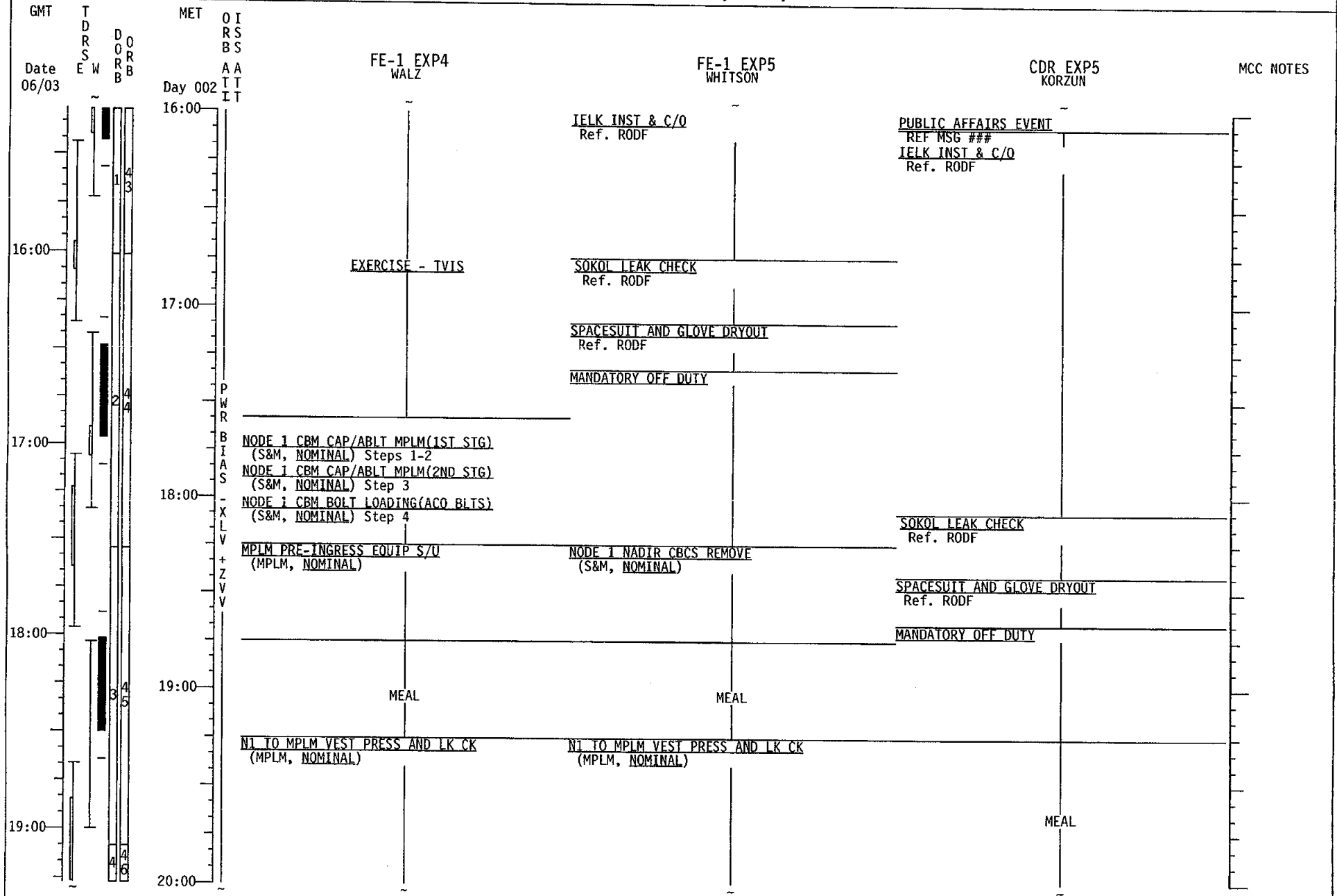
# STS-111 UF-2 (FD04)



# STS-111 UF-2 (FD04)

GMT	TDRS E W	DORRB A B	MET Day 002	OIRSBS AA TT IT	CDR COCKRELL	PLT LOCKHART	MS1 PERRIN	MS2 CHANG-DIAZ	MCC NOTES	
Date 06/03			16:00	P W R B I A S - X L V + Z V V	MPLM UNBERTH (PDRS, NOM MPLM INSTALL OPS)	EXERCISE	MPLM UNBERTH (PDRS, NOM MPLM INSTALL OPS)	TRANSFER Ref. MDDK TRANSFER LIST	UPLINK TFL 188	
						SHUTTLE/ISS H2O CNTR FILL (ORB OPS, ECLS)Term Fill #1 Report CWC Barcode & SN to MCC				
						CWC TRANSFER (1 BAG) Transfer 1 CWC bag to ISS				
						NI NADIR CBM VERIFY PREMATE STATUS MPLM (S&M, NOMINAL)	TRANSFER Ref. MDDK TRANSFER LIST	MPLM INSTALL (PDRS, NOM MPLM INSTALL OPS)		EXERCISE
						MPLM INSTL (PDRS, NOM MPLM INSTL OPS)				PCG-STES 9 XFER MDDK TO ISS (ASSY OPS, TRANSFER)
						MPLM INSTALL (TEST MODE) (PDRS, NOM MPLM INSTALL OPS)Step4		MPLM INSTALL (TEST MODE) (PDRS, NOM MPLM INSTALL OPS)Step4		
						MPLM INSTALL (BRAKES ON) (PDRS, NOM MPLM INSTALL OPS) Step 5		MPLM INSTALL (BRAKES ON) (PDRS, NOM MPLM INSTALL OPS) Step 5		BPS TRANSFER ISS TO MDDK (ASSY OPS, TRANSFER) Steps 1-2
						MPLM UNGRAPPLE ON NODE NADIR (PDRS, NOM MPLM INSTALL OPS)		MPLM UNGRAPPLE ON NODE NADIR (PDRS, NOM MPLM INSTALL OPS)		
						RMS PWRDN (PDRS, RMS PWRDN) Note: Do not stow MPM's		RMS PWRDN (PDRS, RMS PWRDN) Note: Do not stow MPM's		BPS TRANSFER ISS TO MDDK (ASSY OPS, TRANSFER)
						CGBA XFER ISS TO MDDK (ASSY OPS, TRANSFER)	PWR FILL (ORB OPS, ECLS)Init Fill #1 Fill SN 1004 Fill Duration ~ 30 min Report SN to MCC	TRANSFER Ref. MDDK TRANSFER LIST		
	MEAL	MEAL	MEAL	MEAL						
			19:00							
			20:00							

# STS-111 UF-2 (FD04)

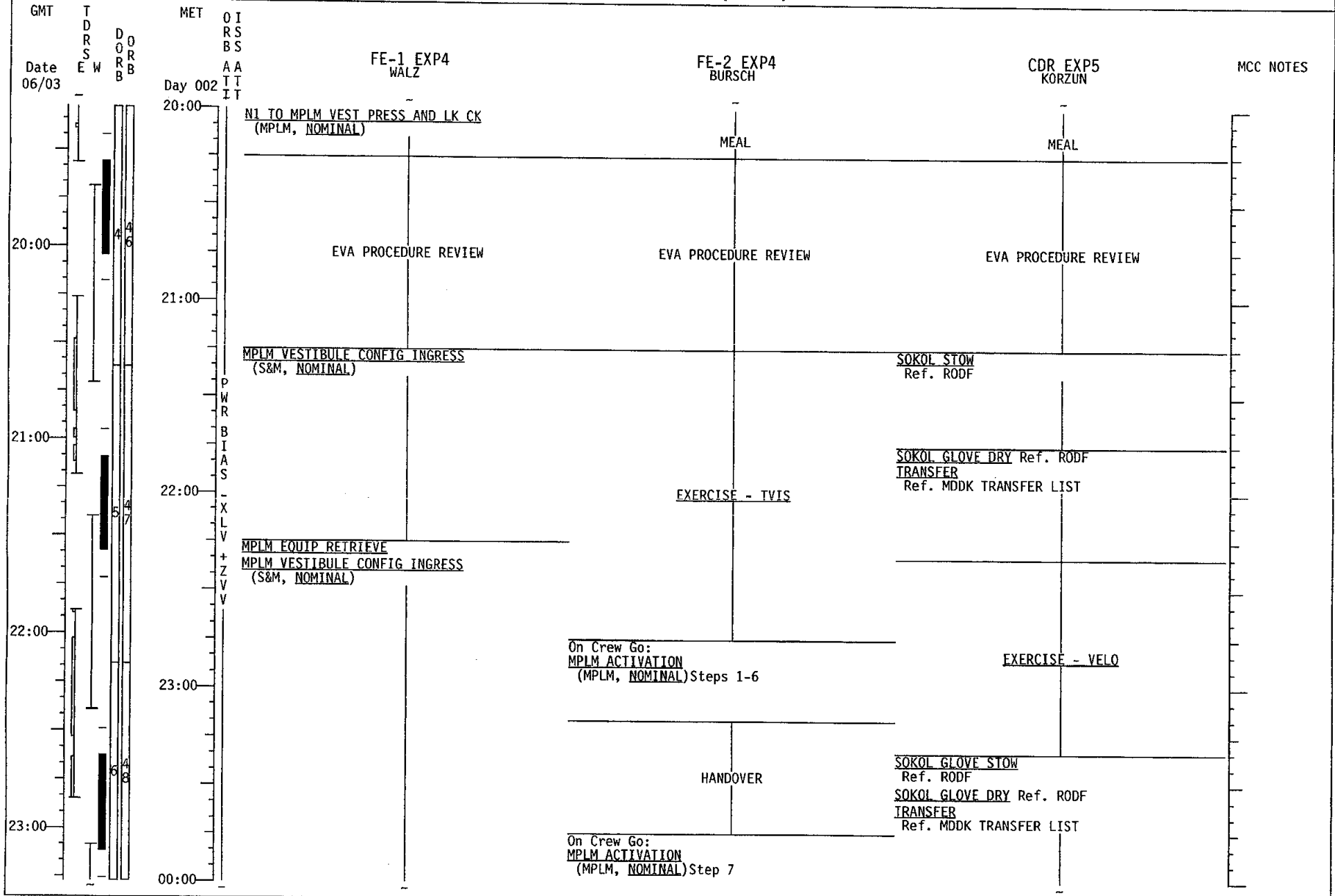


# STS-111 UF-2 (FD04)

GMT	TDRS E W	DORR B	MET Day 002	OIRSBS AAITL	CDR COCKRELL	PLT LOCKHART	MS1 PERRIN	MS2 CHANG-DIAZ	MCC NOTES
			20:00		MEAL	MEAL	MEAL	MEAL	
20:00					EVA PROCEDURE REVIEW	EVA PROCEDURE REVIEW	EVA PROCEDURE REVIEW	EVA PROCEDURE REVIEW	
			21:00			EVA 1 TOOL CONFIG (EVA, FS TIMELINES)	EVA 1 TOOL CONFIG (EVA, FS TIMELINES)	EVA 1 TOOL CONFIG (EVA, FS TIMELINES)	
21:00					EXERCISE				
			22:00			EQUIPMENT LOCK PREP (ISS EVA, EVA PREP)	EQUIPMENT LOCK PREP (ISS EVA, EVA PREP)	EQUIPMENT LOCK PREP (ISS EVA, EVA PREP)	
22:00					SHUTTLE/ISS H2O CNTR FILL (ORB OPS, ECLS) Init Fill #2 Add Silver Biocide Only Samples not req'd/Dur-55min				
			23:00		P/TV21 ISS INTERNAL OPS (S/U) (PHOTO/TV, SCENES)	TRANSFER Ref. MDDK TRANSFER LIST	PGT CHECKOUT (EVA, TOOLS AND STOWAGE)	PGT CHECKOUT (EVA, TOOLS AND STOWAGE)	
23:00					SHUTTLE/ISS H2O CNTR FILL (ORB OPS, ECLS) Term Fill #2 Report CWC Barcode & SN to MCC		TRANSFER Ref. MDDK TRANSFER LIST	P/TV21 ISS INTERNAL OPS (S/U) (PHOTO/TV, SCENES)	
					MAGR ONORBIT SETUP (ORB OPS, GPS) Steps 4-7				
			00:00		PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)			TRANSFER Ref. MDDK TRANSFER LIST	

UPLINK  
TFL 199

# STS-111 UF-2 (FD04)





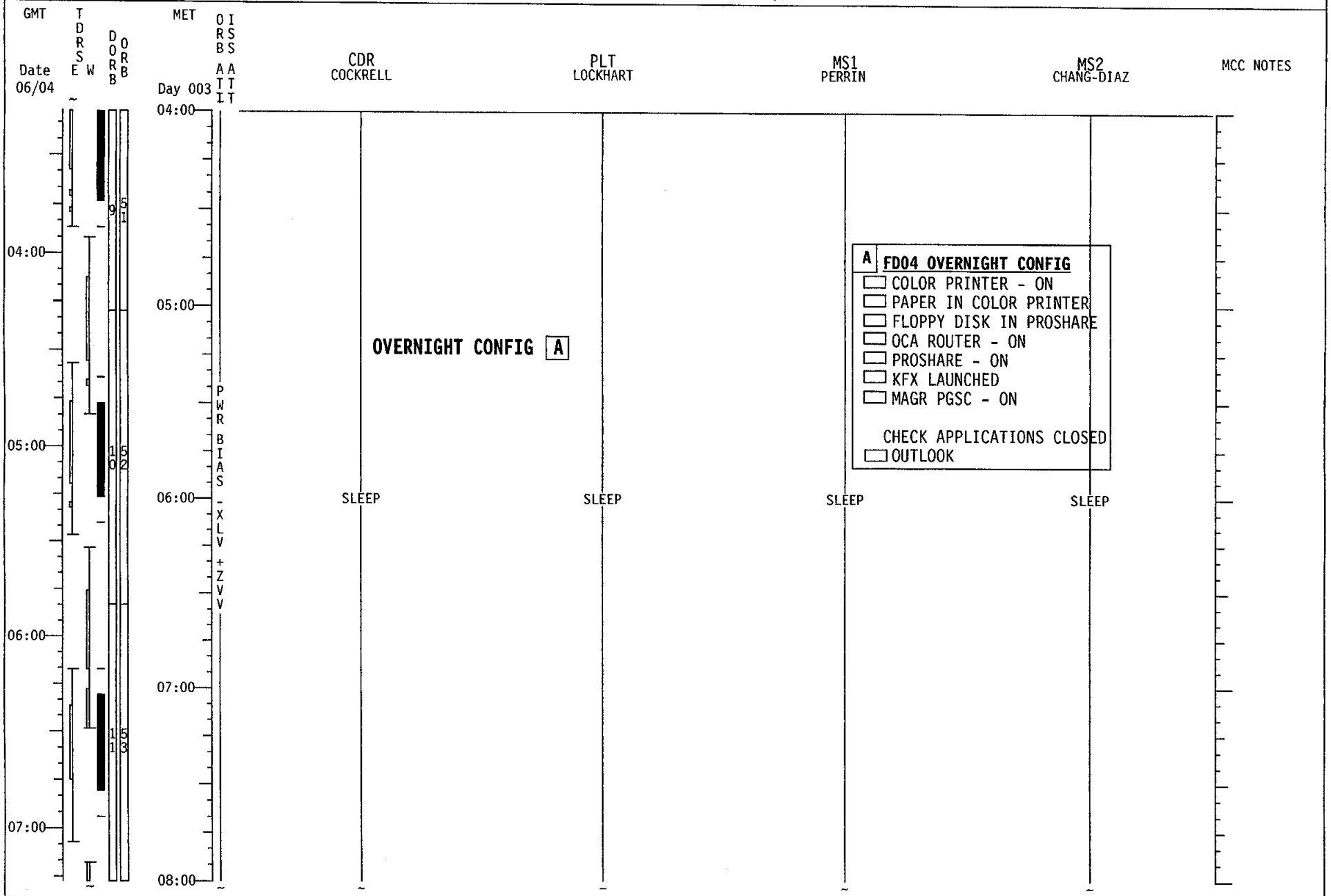
# STS-111 UF-2 (FD04)

GMT	TDRS E W	DORB	MET	OIRSBS AA TT IT	CDR COCKRELL	PLT LOCKHART	MS1 PERRIN	MS2 CHANG-DIAZ	MCC NOTES
Date 06/03			Day 003						
00:00		6 4 8			<u>PRE-SLEEP ACTIVITY</u> (ORB OPS, CREW SYS)	<u>TRANSFER</u> Ref. MDDK TRANSFER LIST		<u>TRANSFER</u> Ref. MDDK TRANSFER LIST	
00:00						<u>CWC TRANSFER (1 BAG)</u> Transfer 1 CWC bag to ISS	EXERCISE		
						<u>PWR TRANSFER (1 BAG)</u> Transfer 1 PWR bag to ISS			
01:00		7 4 9			<u>EXPRESS 3 RACK XFER MPLM TO ISS</u> (ASSY OPS, TRANSFER)				
01:00				PWR BIAS	<u>DAILY STS/ISS CREW TRANSFER TAGUP</u>				
02:00				XLV	<u>DAILY TRANSFER BRIEFING</u>				
				ZVV	<u>VIDEO CONFERENCING</u> (ORB OPS, PGSC) - PMC				
02:00		8 5 0				<u>PRE-SLEEP ACTIVITY</u> (ORB OPS, CREW SYS)	<u>PRE-SLEEP ACTIVITY</u> (ORB OPS, CREW SYS)	<u>PRE SLEEP ACTIVITY</u> (ORB OPS, CREW SYS)	
								<u>GALLEY OVERNIGHT CONFIG</u> (ORB OPS, ECLS)	
03:00					<u>PRE-SLEEP ACTIVITY</u> (ORB OPS, CREW SYS)				
03:00		9 5 1							
04:00									

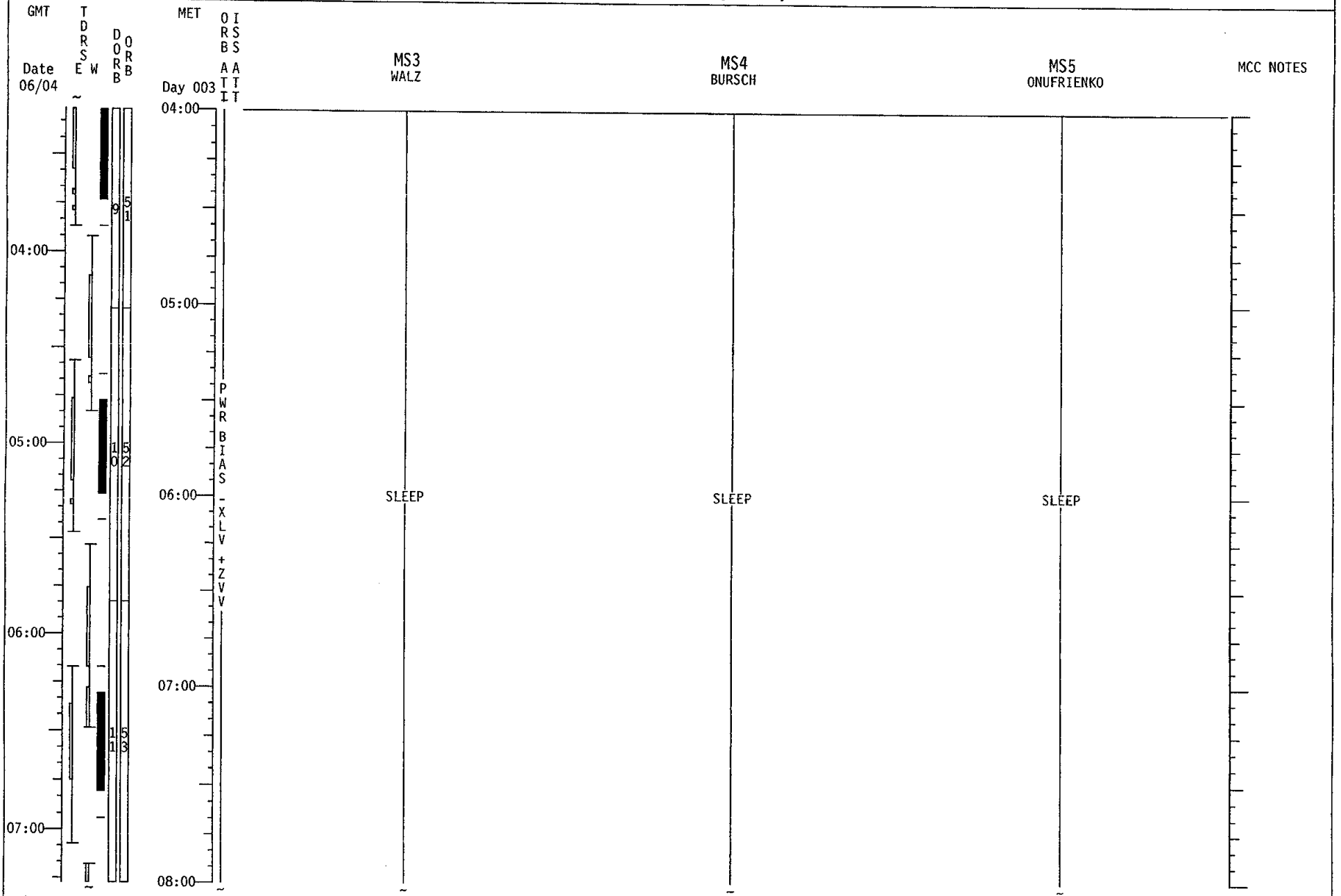
# STS-111 UF-2 (FD04)

GMT Date 06/03	TDRS EW	DORB B	MET Day 003	OIRSBS AA TT IT	FE-1 EXP4 WALZ	FE-2 EXP4 BURSCH	CDR EXP5 KORZUN	MCC NOTES
00:00					MPLM VESTIBULE CONFIG INGRESS (S&M, NOMINAL)		TRANSFER Ref. MDDK TRANSFER LIST	
00:00						EXERCISE - IVIS	SOKOL GLOVE STOW Ref. RODF	
00:00					MPLM INGRESS (MPLM, NOMINAL)		P/TV21 ISS INTERNAL OPS (OPS) (PHOTO/TV, SCENES)	
01:00					EXPRESS 3 RACK XFER MPLM TO ISS (ASSY OPS, TRANSFER)	MPLM S/U FOR TRANSFER Ref. MPLM Resupply Transfer List		
01:00						TRANSFER Ref. MPLM TRANSFER LIST	HANDOVER	
01:00					DAILY PLAN CONF	DAILY PLAN CONF	DAILY PLAN CONF	
02:00								
02:00								
02:00					PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	
03:00								
03:00								
04:00								

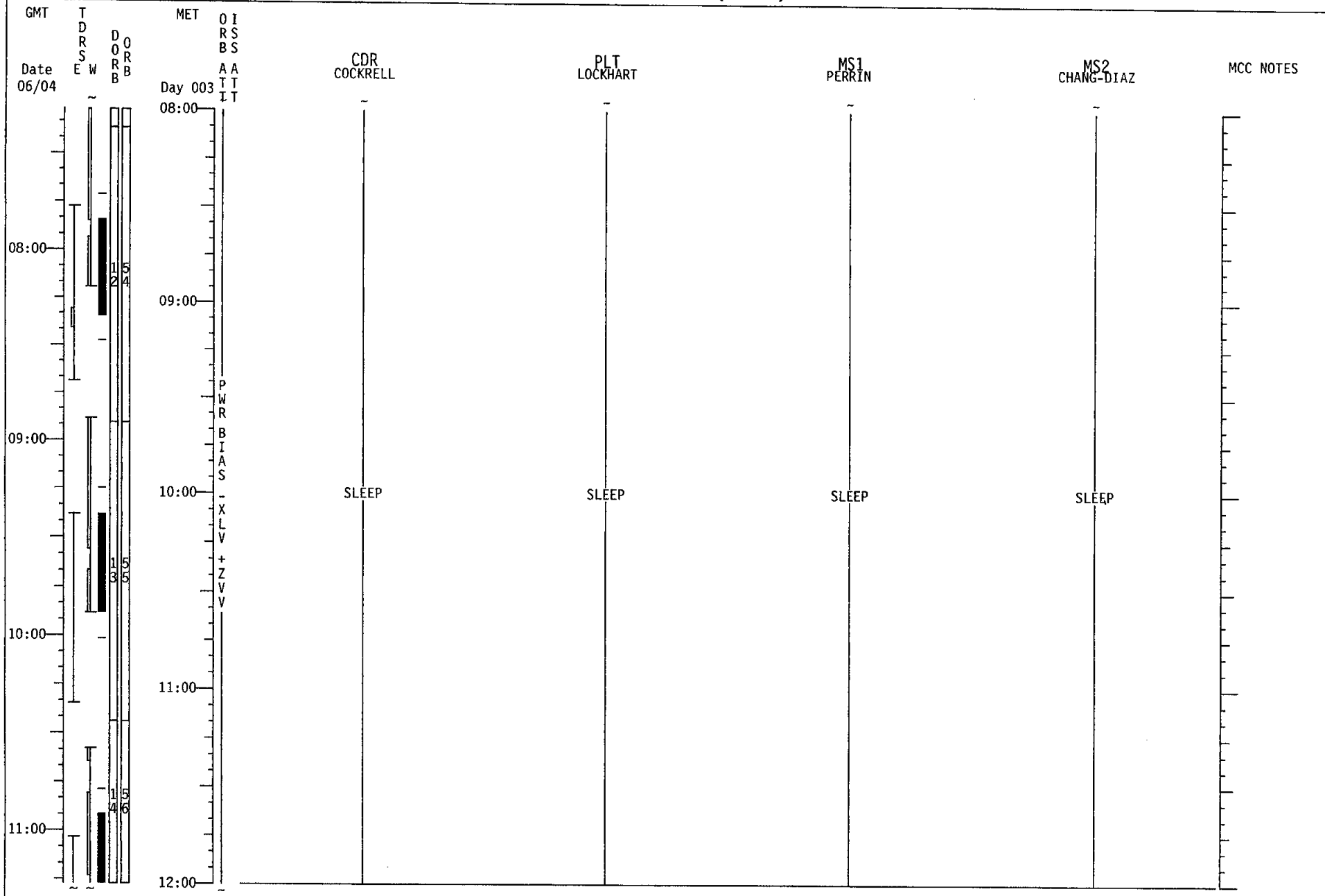
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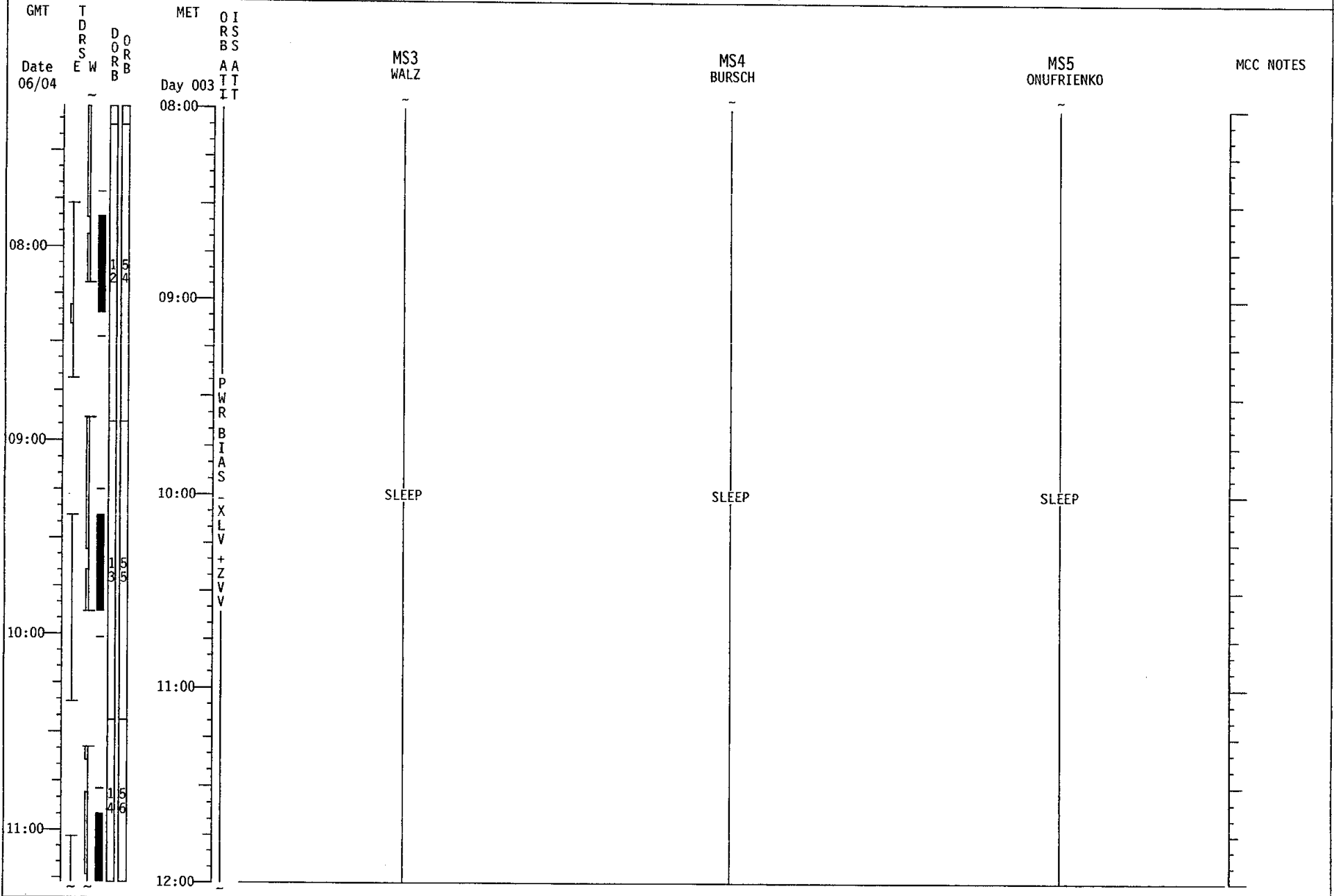
# STS-111 UF-2 (FD04)



# STS-111 UF-2 (FD04)



# STS-111 UF-2 (FD04)



# STS-111 UF-2 (FD05)

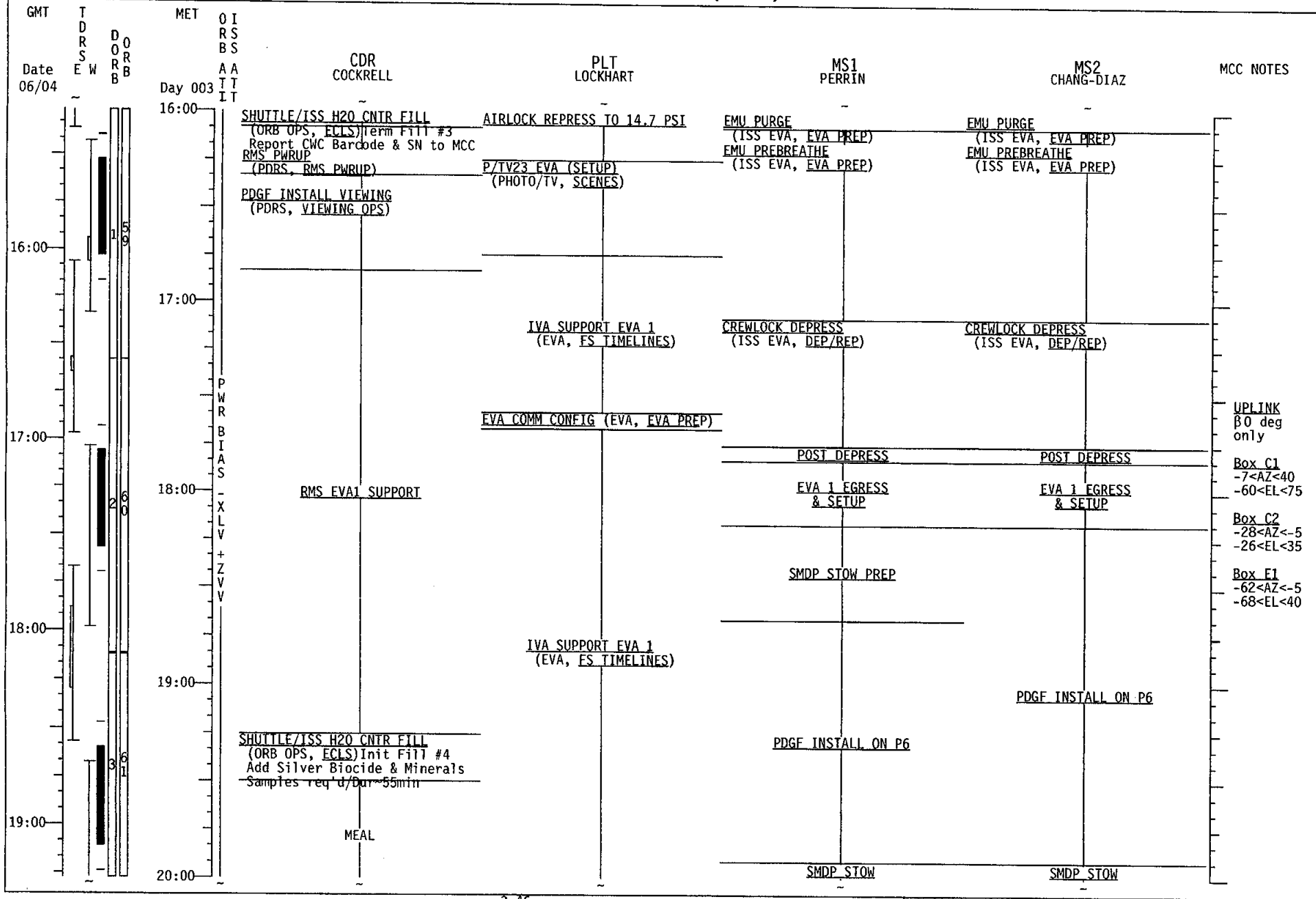
GMT Date 06/04	T D R S E W	D O R B	M E T Day 003	O I R S B S A A T T I T	CDR COCKRELL	PLT LOCKHART	MS1 PERRIN	MS2 CHANG-DIAZ	MCC NOTES
			12:00		SLEEP LOG(ORB OPS, DS0634)			SLEEP LOG(ORB OPS, DS0634)	
					POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)				
					06 JHF MODE - OFF A/G PRIVATE MEDICAL CONF				
			12:00			POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	POST SLEEP ACTIVITY (ORB OPS, CREW SYS)	
								GALLEY MORNING CONFIG (ORB OPS, ECLS)	
			13:00			EVA PREP (ISS EVA, EVA PREP)	EVA PREP (ISS EVA, EVA PREP)	STOW ACT/LIGHT WATCH(ORB OPS, DS0634) EVA PREP (ISS EVA, EVA PREP)	
					POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)				
			13:00	P W R B I A S X L V + Z V V					
								<b>FD05 EZ ACTIVITIES</b> OCAC FILTER INSPECT TEPC (STATUS CHECK) (ORB OPS, CREW SYSTEMS) REBOOT PGSCs	
			14:00		Update Master Transfer List and Post Pages				
					EVA 1 INHIBIT PAD (EVA, ES TIMELINES)				
			14:00		A8L PORT RMS HTR (two) - AUTO L17 Check MCIU filter screen SHUTTLE/ISS H2O CNTR FILL (ORB OPS, ECLS) Init Fill #3 Add Silver Biocide Only <del>Samples not req'd/Dur=55min</del>				
			15:00		EXERCISE				
			15:00						
			16:00		SHUTTLE/ISS H2O CNTR FILL (ORB OPS, ECLS) Term Fill #3 Report CWC Barcode & SN to MCC	AIRLOCK REPRESS TO 14.7 PSI	EMU PURGE (ISS EVA, EVA PREP)	EMU PURGE (ISS EVA, EVA PREP)	

# STS-111 UF-2 (FD05)

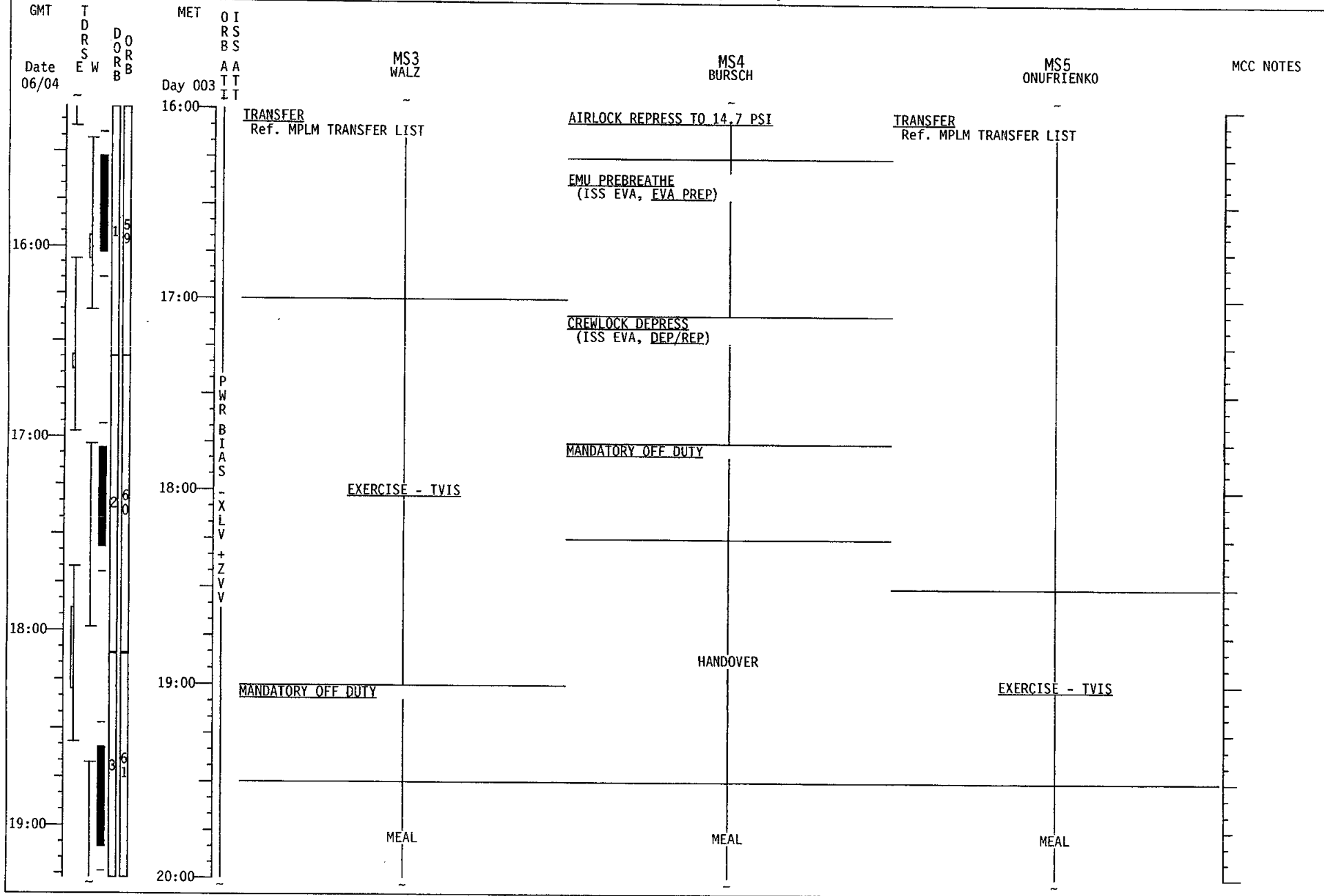
GMT Date 06/04	T D R S E W	D O R B	MET Day 003	O I R S B S A A T T I T	MS3 WALZ	MS4 BURSCH	MS5 ONUFRIENKO	MCC NOTES
			12:00					
		1546			POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	
			13:00			EVA PREP (ISS EVA, EVA PREP)		
		1557		P W R B I A S	DAILY PLAN CONF		DAILY PLAN CONF	
			14:00	X L V + Z V V	PREP WORK		PREP WORK	
					TRANSFER Ref. MPLM TRANSFER LIST		TRANSFER Ref. MPLM TRANSFER LIST	
		1568	15:00					
		1599	16:00			AIRLOCK REPRESS TO 14.7 PSI		



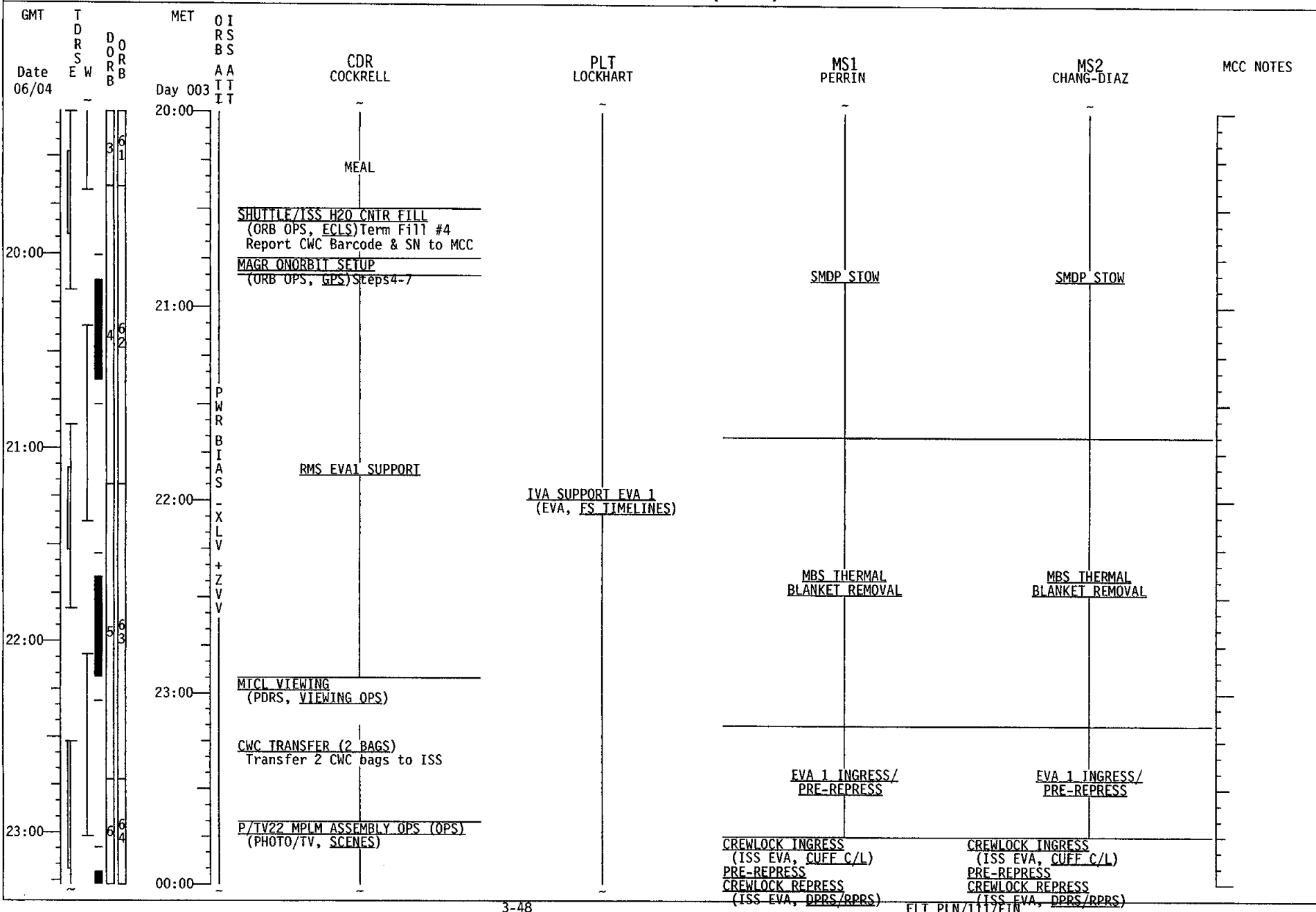
# STS-111 UF-2 (FD05)



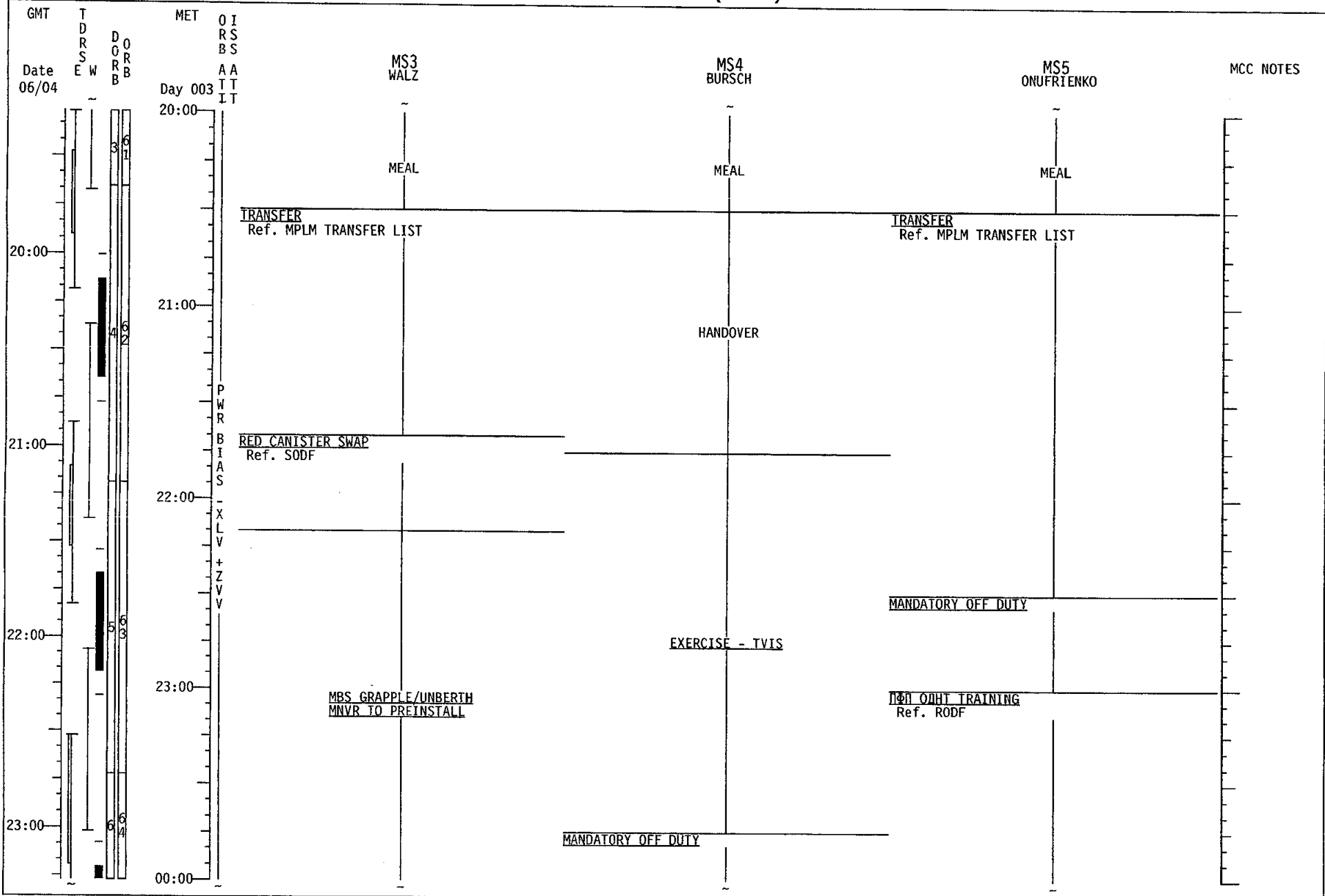
# STS-111 UF-2 (FD05)



# STS-111 UF-2 (FD05)



# STS-111 UF-2 (FD05)



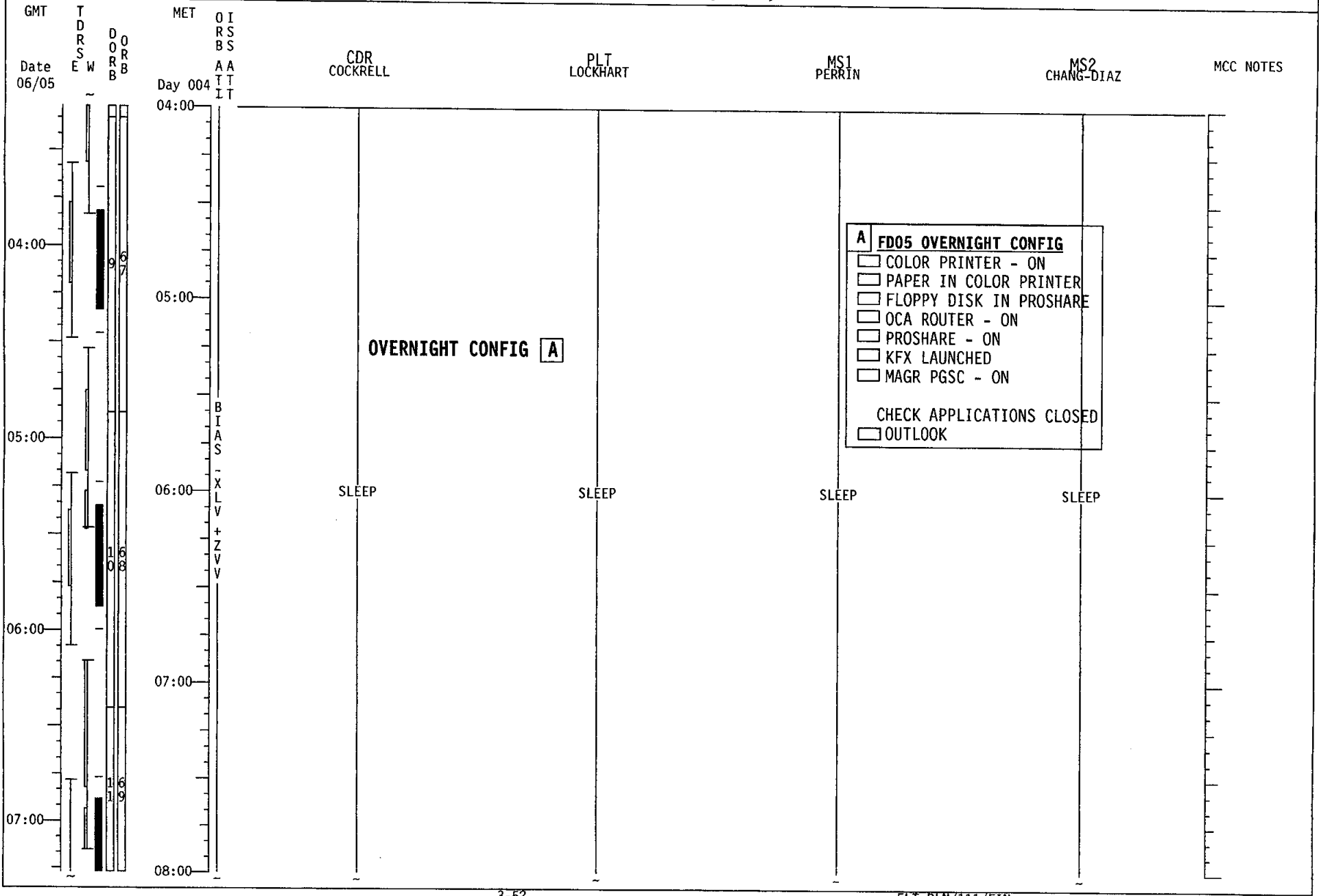
# STS-111 UF-2 (FD05)

GMT Date 06/04	TDRS E W	DOORB ORB	MET Day 004	OIRSBS AAIT IT	CDR COCKRELL	PLT LOCKHART	MS1 PERRIN	MS2 CHANG-DIAZ	MCC NOTES
00:00					P/TV22 MPLM ASSEMBLY OPS (OPS) (PHOTO/TV, SCENES)	IVA SUPPORT EVA 1 (EVA, ES TIMELINES)	CREWLOCK INGRESS (ISS EVA, CUFF C/L)	CREWLOCK INGRESS (ISS EVA, CUFF C/L)	
						POST EVA (ISS EVA, POST EVA) PERFORM ALL STEPS	PRE-REPRESS CREWLOCK REPRESS (ISS EVA, DPRS/RPRS)	PRE-REPRESS CREWLOCK REPRESS (ISS EVA, DPRS/RPRS)	
							POST EVA (ISS EVA, POST EVA) PERFORM ALL STEPS	POST EVA (ISS EVA, POST EVA) PERFORM ALL STEPS	
00:00					DAILY STS/ISS CREW TRANSFER TAGUP				
					DAILY TRANSFER BRIEFING				
01:00									
						BSA (INIT) (ISS EVA, EMU MAINT/RECHARGE) w/O In-suit steps		SETUP ACT WATCH(ORB OPS,DS0634)	UPLINK β 21 deg only
						EMU BATT RCHG PSA UTIL OUTLET (EVA, EMU MAINT/RECHARGE)			Box C1 -7<AZ<40 -60<EL<75
01:00									Box C2 -28<AZ<-5 -26<EL<35
					PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)				Box D2 -30<AZ<-5 -43<EL<50
02:00									
					<ISS Controlled Transition from PWR TEA to NOM TEA (04/02:43)		PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	PRE SLEEP ACTIVITY (ORB OPS, CREW SYS)	
03:00					VIDEO CONFERENCING (ORB OPS, PGSC) - PMC	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)		GALLEY OVERNIGHT CONFIG (ORB OPS, ECLS)	
					PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)				
03:00									
04:00									

# STS-111 UF-2 (FD05)

GMT Date 06/04	TDRS E W	DOORB B	MET Day 004	OIRSBS AA TT TT	MS3 WALZ	MS4 BURSCH	MS5 ONUFRIENKO	MCC NOTES
00:00					MBS GRAPPLE/UNBERTH MNR TO PREINSTALL	MANDATORY OFF DUTY POST EVA (ISS EVA, POST EVA) PERFORM ALL STEPS	ΠΠ ODHT TRAINING Ref. RODF	
00:00				PWR				
01:00				BIAS	PLAN REVIEW		PLAN REVIEW	
01:00				-XLV	PREP WORK	BSA (INIT) (ISS EVA, EMU MAINT/RECHARGE) W/O In-suit steps	PREP WORK	
01:00				+ZVV	DAILY PLAN CONF	EMU BATT RCHG PSA UTIL OUTLET (EVA, EMU MAINT/RECHARGE)	DAILY PLAN CONF	
02:00						DAILY PLAN CONF		
03:00				BIAS	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	
03:00				-XLV				
03:00				+ZVV				
04:00								

# STS-111 UF-2 (FD05)

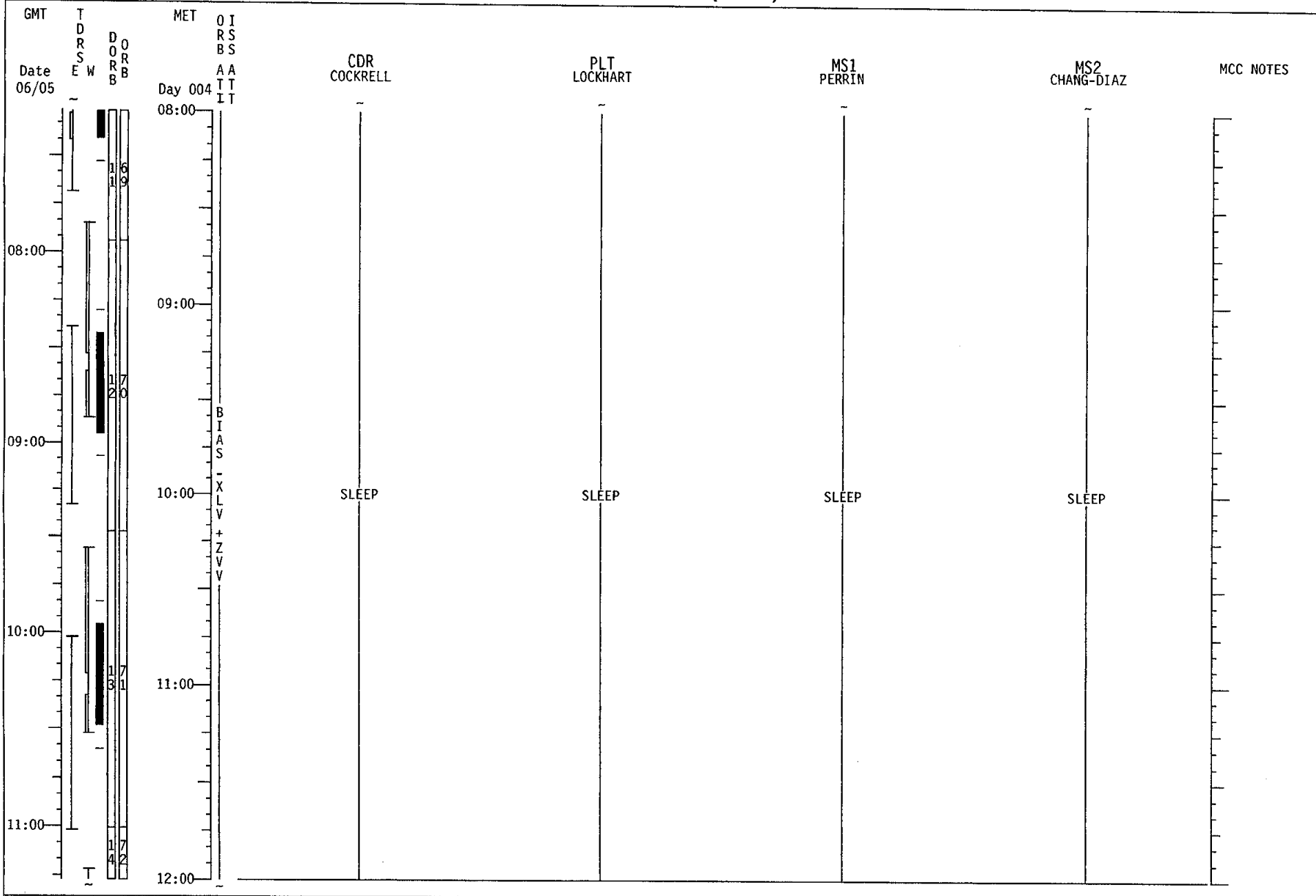


# STS-111 UF-2 (FD05)

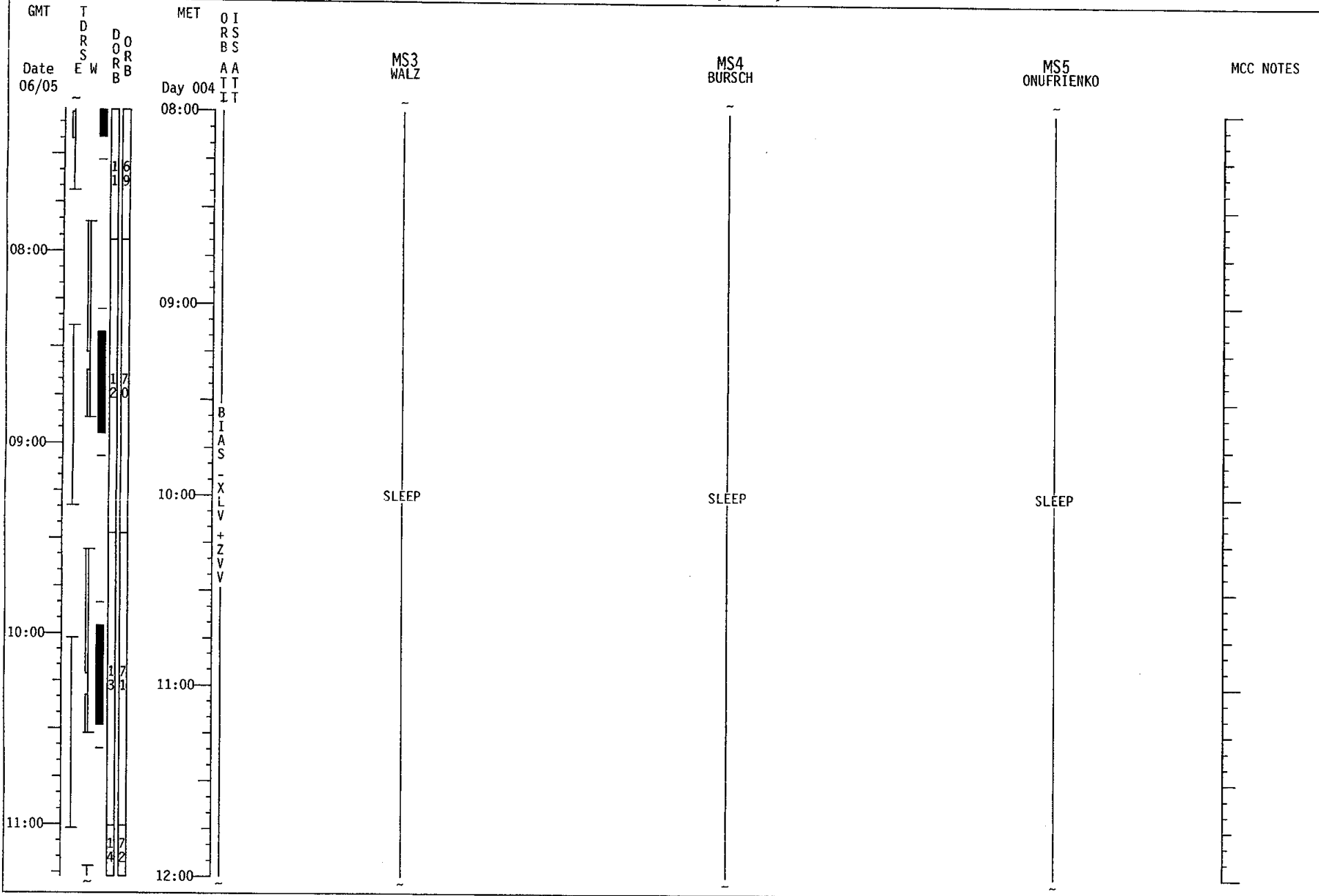
GMT Date 06/05	TDRS EW	DORR BB	MET Day 004	OIRS BS AA TT IT	MS3 WALZ	MS4 BURSCH	MS5 ONUFRIENKO	MCC NOTES		
<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 10px;">04:00</div> <div style="margin-bottom: 10px;">04:00</div> <div style="margin-bottom: 10px;">05:00</div> <div style="margin-bottom: 10px;">05:00</div> <div style="margin-bottom: 10px;">06:00</div> <div style="margin-bottom: 10px;">06:00</div> <div style="margin-bottom: 10px;">07:00</div> <div style="margin-bottom: 10px;">07:00</div> <div style="margin-bottom: 10px;">08:00</div> </div>	<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 10px;">04:00</div> <div style="margin-bottom: 10px;">05:00</div> <div style="margin-bottom: 10px;">06:00</div> <div style="margin-bottom: 10px;">07:00</div> <div style="margin-bottom: 10px;">08:00</div> </div>	<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 10px;">04:00</div> <div style="margin-bottom: 10px;">05:00</div> <div style="margin-bottom: 10px;">06:00</div> <div style="margin-bottom: 10px;">07:00</div> <div style="margin-bottom: 10px;">08:00</div> </div>	<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 10px;">04:00</div> <div style="margin-bottom: 10px;">05:00</div> <div style="margin-bottom: 10px;">06:00</div> <div style="margin-bottom: 10px;">07:00</div> <div style="margin-bottom: 10px;">08:00</div> </div>	<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 10px;">04:00</div> <div style="margin-bottom: 10px;">05:00</div> <div style="margin-bottom: 10px;">06:00</div> <div style="margin-bottom: 10px;">07:00</div> <div style="margin-bottom: 10px;">08:00</div> </div>	<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 10px;">04:00</div> <div style="margin-bottom: 10px;">05:00</div> <div style="margin-bottom: 10px;">06:00</div> <div style="margin-bottom: 10px;">07:00</div> <div style="margin-bottom: 10px;">08:00</div> </div>	<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 10px;">04:00</div> <div style="margin-bottom: 10px;">05:00</div> <div style="margin-bottom: 10px;">06:00</div> <div style="margin-bottom: 10px;">07:00</div> <div style="margin-bottom: 10px;">08:00</div> </div>	<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 10px;">04:00</div> <div style="margin-bottom: 10px;">05:00</div> <div style="margin-bottom: 10px;">06:00</div> <div style="margin-bottom: 10px;">07:00</div> <div style="margin-bottom: 10px;">08:00</div> </div>	<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 10px;">04:00</div> <div style="margin-bottom: 10px;">05:00</div> <div style="margin-bottom: 10px;">06:00</div> <div style="margin-bottom: 10px;">07:00</div> <div style="margin-bottom: 10px;">08:00</div> </div>	<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 10px;">04:00</div> <div style="margin-bottom: 10px;">05:00</div> <div style="margin-bottom: 10px;">06:00</div> <div style="margin-bottom: 10px;">07:00</div> <div style="margin-bottom: 10px;">08:00</div> </div>	<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 10px;">04:00</div> <div style="margin-bottom: 10px;">05:00</div> <div style="margin-bottom: 10px;">06:00</div> <div style="margin-bottom: 10px;">07:00</div> <div style="margin-bottom: 10px;">08:00</div> </div>



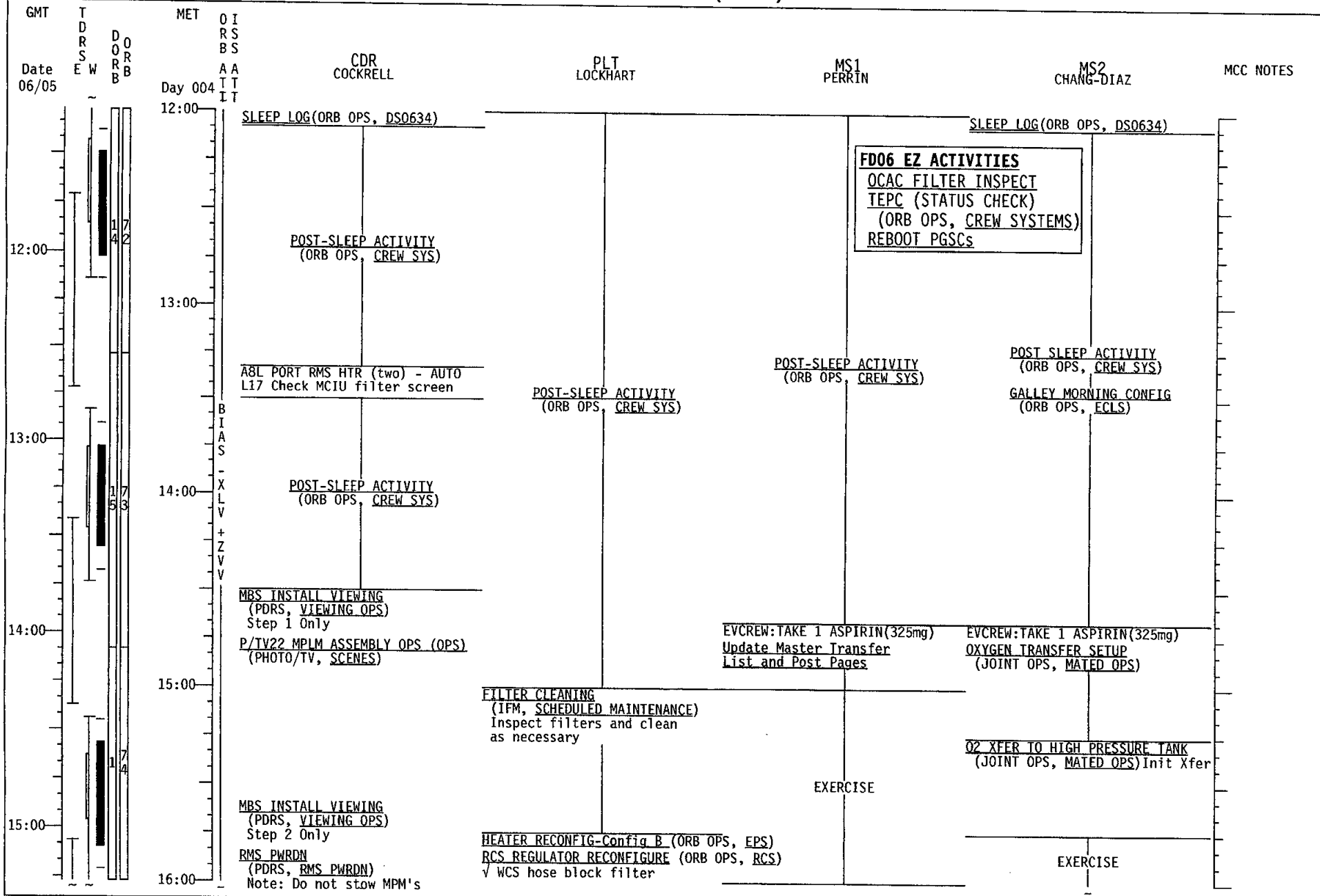
# STS-111 UF-2 (FD05)



# STS-111 UF-2 (FD05)



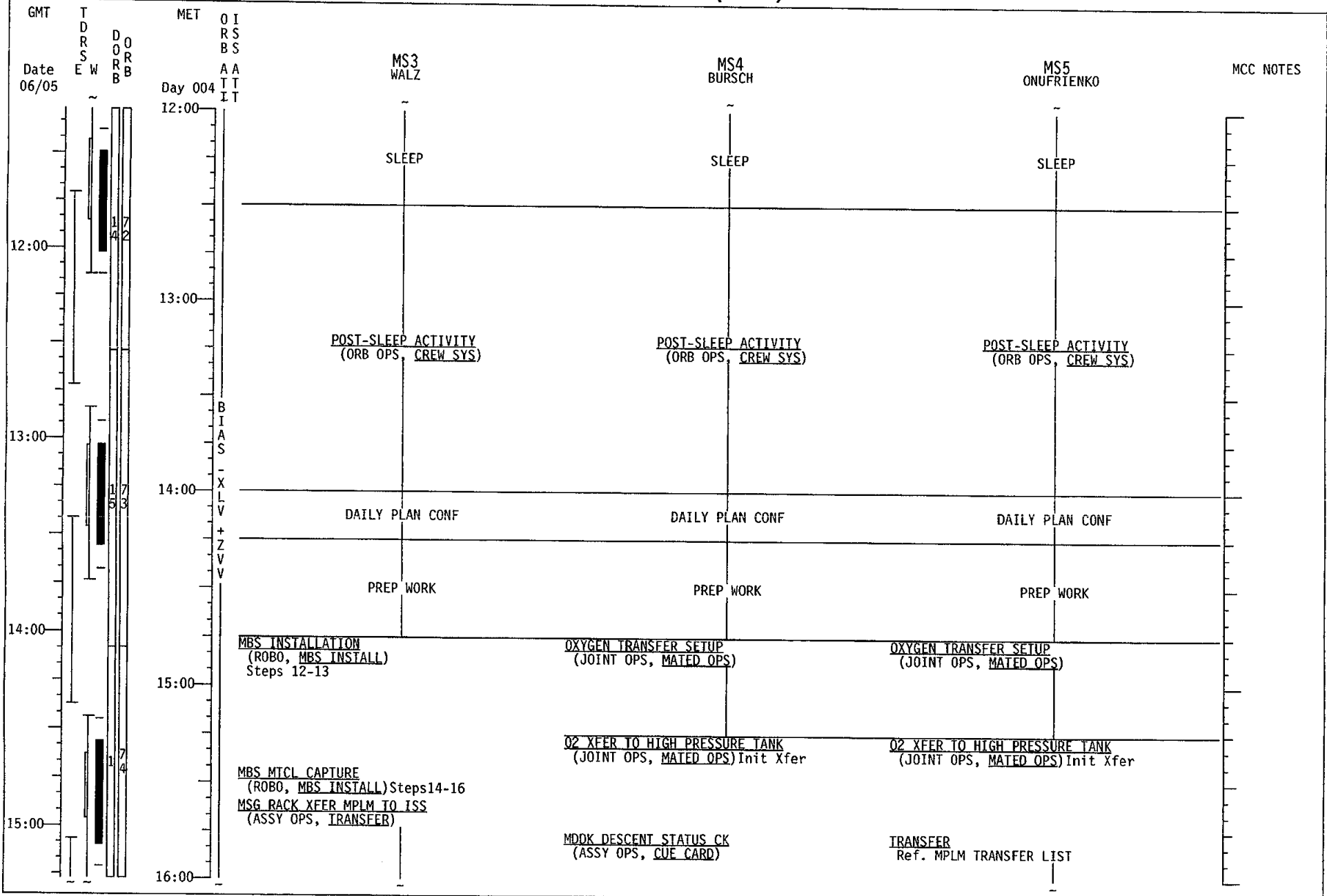
# STS-111 UF-2 (FD06)



**FD06 EZ ACTIVITIES**  
 OCAC FILTER INSPECT  
 TEPC (STATUS CHECK)  
 (ORB OPS, CREW SYSTEMS)  
 REBOOT PGSCs

O2 XFER TO HIGH PRESSURE TANK  
(JOINT OPS, MATED OPS) Init Xfer

# STS-111 UF-2 (FD06)



# STS-111 UF-2 (FD06)

GMT Date 06/05	TDRS EW	DORB 174	MET Day 004	OIRSBS AA TT IT	CDR COCKRELL	PLT LOCKHART	MS1 PERRIN	MS2 CHANG-DIAZ	MCC NOTES
16:00					<u>RMS PWRDN(PDRS,RMS PWRDN)</u> Note: Do not show MPM's	<u>CABIN TEMP CNTL RECONFIG - 2(1)</u> (ORB OPS, ECLS) Config to SEC ACT & CNTLR - 2	<u>TRANSFER</u> Ref. MPLM TRANSFER LIST		
					<u>TRANSFER</u> Ref. MPLM TRANSFER LIST	<u>SHUTTLE/ISS H2O CNTR FILL</u> (ORB OPS, ECLS) Init Fill #5 Add Silver Biocide & Minerals Samples req'd/Dur-55min		<u>EXERCISE</u>	
16:00						<u>EXERCISE</u>			
					<u>P/TV21 ISS INTERNAL OPS (S/U)</u> (PHOTO/TV, SCENES)	<u>SHUTTLE/ISS H2O CNTR FILL</u> (ORB OPS, ECLS) Term Fill #5 Report CWC Barcode & SN to MCC			
17:00					<u>PUBLIC AFFAIRS EVENT</u> REF MSG ###	<u>TRANSFER</u> Ref. MPLM TRANSFER LIST	<u>PUBLIC AFFAIRS EVENT</u> REF MSG ###		
					<u>CWC TRANSFER (1 BAG)</u> Transfer 1 CWC bag to ISS		<u>TRANSFER</u> Ref. MPLM TRANSFER LIST		
					<u>PRLA CLOSE</u> (ORB OPS, PRLA)				
18:00					<u>SHUTTLE/ISS H2O CNTR FILL</u> (ORB OPS, ECLS) Init Fill #6 Add Silver Biocide & Minerals Samples req'd/Dur-55min				
					<u>EXERCISE</u>				
19:00							<u>REBA INSTALL</u> (ISS EVA, EMU MAINT/RECHARGE)	<u>REBA INSTALL</u> (ISS EVA, EMU MAINT/RECHARGE)	
							<u>EMU METOX/BATTERY REPLACE</u> (ISS EVA, EMU MAINT/RECHG)	<u>EMU METOX/BATTERY REPLACE</u> (ISS EVA, EMU MAINT/RECHG)	
19:00							<u>SAFER CHECKOUT</u> (EVA, CHECKOUTS)	<u>SAFER CHECKOUT</u> (EVA, CHECKOUTS)	
20:00					<u>SHUTTLE/ISS H2O CNTR FILL</u> (ORB OPS, ECLS) Term Fill #6 Report CWC Barcode & SN to MCC				

# STS-111 UF-2 (FD06)

GMT Date 06/05	T D R S E W	D O R B	MET Day 004	O I R S B S A A T T I T	MS3 WALZ	MS4 BURSCH	MS5 ONUFRIENKO	MCC NOTES
16:00		1 7 4			MSG RACK XFER MPLM TO ISS (ASSY OPS, TRANSFER)	UF-2 LAPTOP SWAP Ref. SODF	TRANSFER Ref. MPLM TRANSFER LIST	
16:00						PCS DISCONNECT Ref. SODF		
						PCS S/U Ref. SODF		
						PCS DISCONNECT Ref. SODF		
						PCS S/U Ref. SODF		
						TRANSFER Ref. MPLM TRANSFER LIST		
17:00		2 7 5			EXERCISE - TVIS			
17:00				B I A S				
18:00				X L V				
				+ Z V V				
18:00		3 7 6			TRANSFER Ref. MPLM TRANSFER LIST			
19:00							EXERCISE - TVIS	
19:00		4 7 7						
20:00								

# STS-111 UF-2 (FD06)

GMT	TDRS E W	DORB	MET	OIRSBS AAITTT	CDR COCKRELL	PLT LOCKHART	MS1 PERRIN	MS2 CHANG-DIAZ	MCC NOTES
Date 06/05			Day 004						
20:00					<u>SHUTTLE/ISS H2O CNTR FILL</u> (ORB OPS, ECLS) Term F111 #6 Report CWC Barcode & SN to MCC	<u>TRANSFER</u> Ref. MPLM TRANSFER LIST	<u>SAFER CHECKOUT</u> (EVA, CHECKOUTS)	<u>SAFER CHECKOUT</u> (EVA, CHECKOUTS)	
20:00					MEAL	MEAL	MEAL	MEAL	
21:00					<u>CHNG OF COMMAND PAO EVENT</u>	<u>CHNG OF COMMAND PAO EVENT</u>	<u>CHNG OF COMMAND PAO EVENT</u>	<u>CHNG OF COMMAND PAO EVENT</u>	
21:00					EVA PROCEDURE REVIEW	EVA PROCEDURE REVIEW	EVA PROCEDURE REVIEW	EVA PROCEDURE REVIEW	
22:00					<u>CWC TRANSFER (1 BAG)</u> Transfer 1 CWC bag to ISS	<u>PUBLIC AFFAIRS EVENT</u> REF MSG ###	<u>TRANSFER</u> Ref. MPLM TRANSFER LIST	<u>PUBLIC AFFAIRS EVENT</u> REF MSG ###	
22:00					<u>H/O ATT CONTROL CMG TA to ORB</u> (JOINT OPS, MATED OPS)	<u>PWR FILL</u> (ORB OPS, ECLS) Init Fill #2 Fill SN 1006 Fill Duration ~ 30 min Report SN to MCC		<u>O2 XFER TO HIGH PRESSURE TANK</u> (JOINT OPS, MATED OPS) Term Xfer <u>POST TRANSFER O2 SYS RECONFIG</u> (JOINT OPS, MATED OPS) Steps 1-4	
23:00					<u>MNVR (TRK)BIAS -ZLV +XVV</u> TG=2 BV=5 P=120 Y=0 OM=180 A/AUTO/VERN Init TRK (22:55)		<u>LOAD EVA F5 CAMERAS</u> (EVA F5 CUE CARD)		
23:00					<u>AUTO REBOOST</u> (ORB OPS, REBOOST/DAP) CONFIG 4	<u>PWR TRANSFER (1 BAG)</u> Transfer 1 PWR bag to ISS	<u>BSA (TERM)</u> (ISS EVA, EMU MAINT/RECHARGE)	<u>BSA (TERM)</u> (ISS EVA, EMU MAINT/RECHARGE)	
23:00							<u>EQUIPMENT LOCK PREP</u> (ISS EVA, EVA PREP)	<u>EQUIPMENT LOCK PREP</u> (ISS EVA, EVA PREP)	
00:00									

# STS-111 UF-2 (FD06)

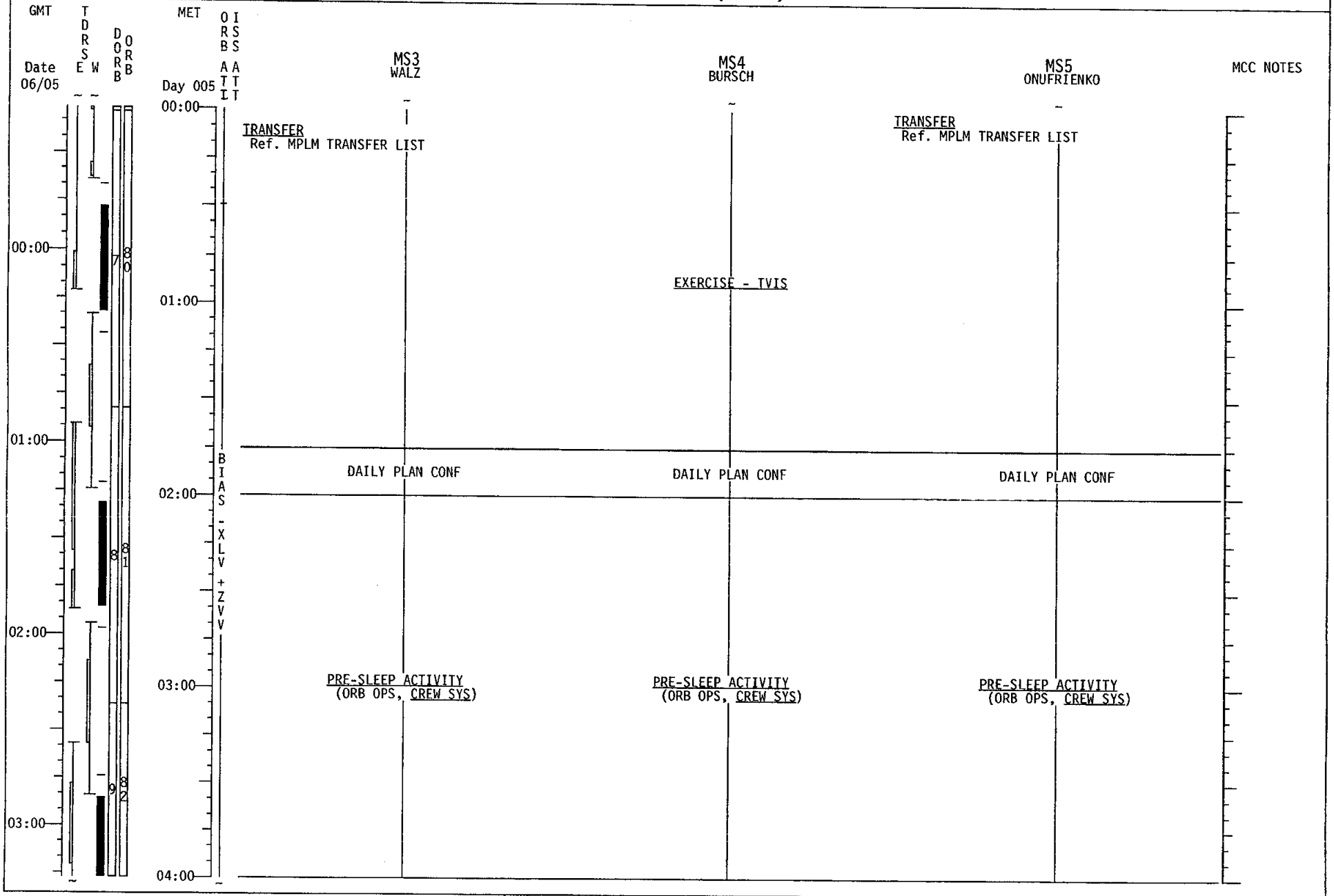
GMT	T D R S E W	D O R B	MET	O I R S B S	MS3 WALZ	MS4 BURSCH	MS5 ONUFRIENKO	MCC NOTES
Date 06/05			Day 004	A A T T I T				
20:00					TRANSFER Ref. MPLM TRANSFER LIST	TRANSFER Ref. MPLM TRANSFER LIST	EXERCISE - TVIS	
20:00					MEAL	MEAL	MEAL	
21:00				B I A S	CHNG OF COMMAND PAO EVENT	CHNG OF COMMAND PAO EVENT	CHNG OF COMMAND PAO EVENT	
21:00				- X L V	EVA PROCEDURE REVIEW	EVA PROCEDURE REVIEW	EVA PROCEDURE REVIEW	
22:00				+ Z V V	PUBLIC AFFAIRS EVENT REF MSG ###	PUBLIC AFFAIRS EVENT REF MSG ###	TRANSFER Ref. MDDK TRANSFER LIST	
22:00					O2 XFER TO HIGH PRESSURE TANK (JOINT OPS, MATED OPS)Term Xfer POST TRANSFER O2 SYS RECONFIG (JOINT OPS, MATED OPS)Steps1-4	TRANSFER Ref. MPLM TRANSFER LIST	O2 XFER TO HIGH PRESSURE TANK (JOINT OPS, MATED OPS)Term Xfer POST TRANSFER O2 SYS RECONFIG (JOINT OPS, MATED OPS)Steps1-4	
23:00				R E B O O S T	TRANSFER Ref. MPLM TRANSFER LIST		TRANSFER Ref. MPLM TRANSFER LIST	
23:00						EXERCISE - TVIS		
00:00								



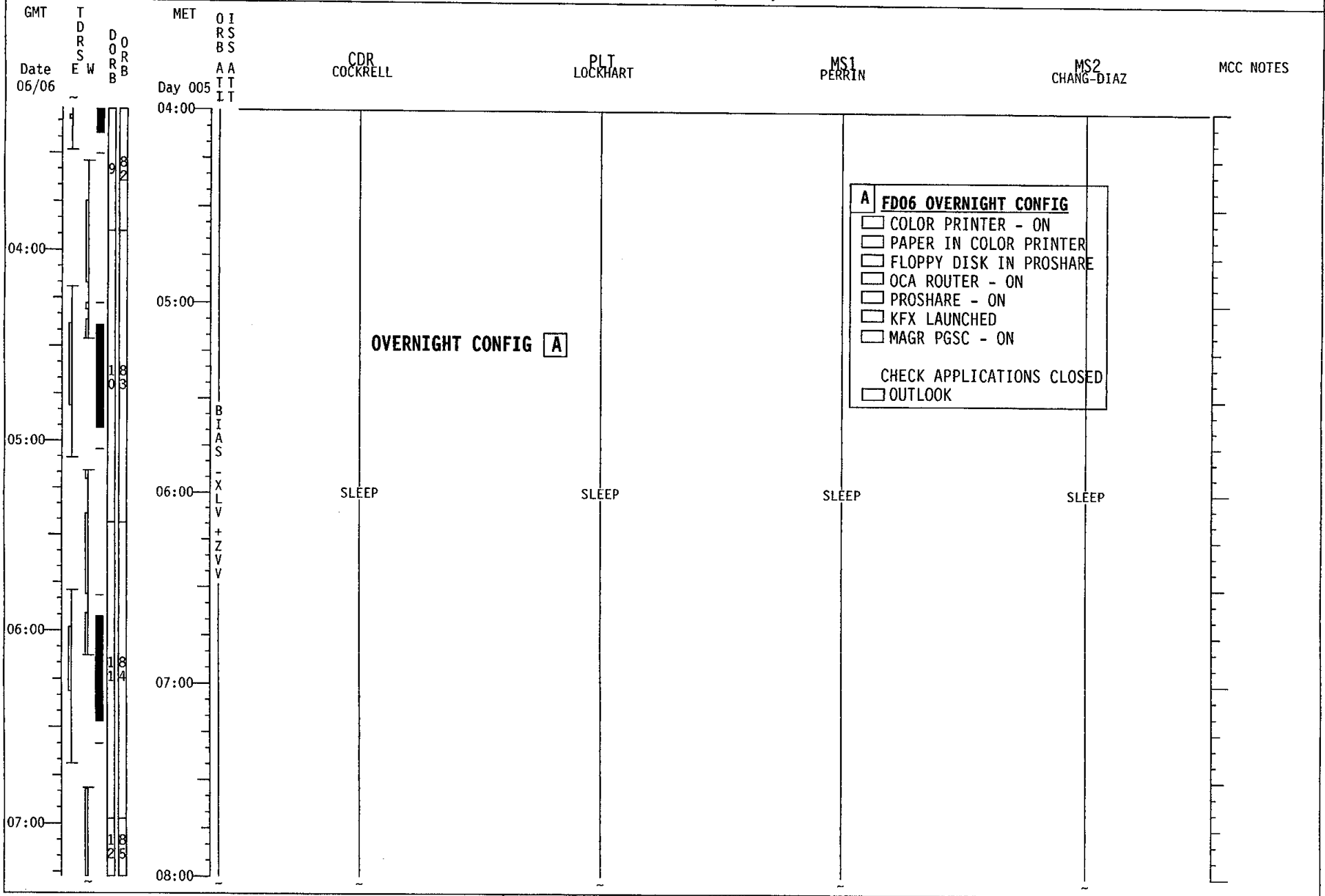
# STS-111 UF-2 (FD06)

GMT Date 06/05	T D R S E W	D O O R B	MET Day 005	O I R S B S A A T T I T	CDR COCKRELL	PLT LOCKHART	MS1 PERRIN	MS2 CHANG-DIAZ	MCC NOTES
			00:00		AUTO REBOOST (ORB OPS, REBOOST/DAP) CONFIG 4	AUTO REBOOST (ORB OPS, REBOOST/DAP) CONFIG 4	EVA 2 TOOL CONFIG (EVA, FS TIMELINES)	EVA 2 TOOL CONFIG (EVA, FS TIMELINES)	
			00:00		MNVR (TRK) BIAS -XLV, +ZVV TG=2 BV=5 P=157 Y=0 OM=0 A12/AUTO/VERN Init TRK (00:30)	MAGR QNORBIT SETUP (ORB OPS, GPS) Steps 4-7 TRANSFER Ref. MDDK TRANSFER LIST MDDK DESCENT STATUS CK (ASSY OPS, CUE CARD) Step 2			
			01:00		H/O ATT CONTROL ORB to CMG TA (JOINT OPS, MATED OPS)		EMU BATT RCHG PSA UTIL OUTLET (EVA, EMU MAINT/RECHARGE)	EMU BATT RCHG PSA UTIL OUTLET (EVA, EMU MAINT/RECHARGE)	
			01:00		PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)				
			02:00	B I A S	DAILY STS/ISS CREW TRANSFER TAGUP				
			02:00	- X L V	DAILY TRANSFER BRIEFING				
			02:00	+ Z V V	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	PRE SLEEP ACTIVITY (ORB OPS, CREW SYS)	
			03:00		VIDEO CONFERENCING (ORB OPS, PGSC) - PMC			GALLEY OVERNIGHT CONFIG (ORB OPS, ECLS)	
			03:00		PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)				
			04:00						

# STS-111 UF-2 (FD06)

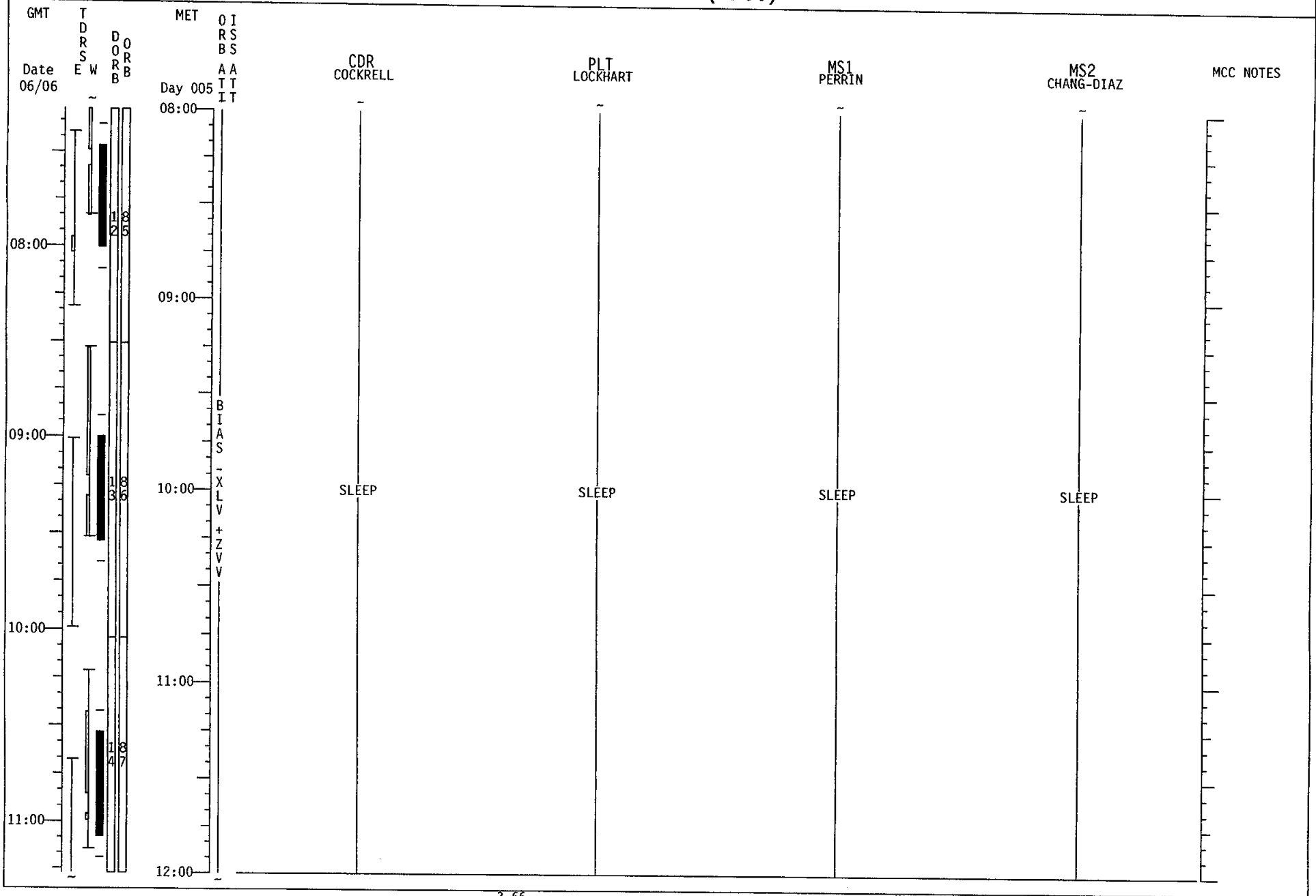


# STS-111 UF-2 (FD06)

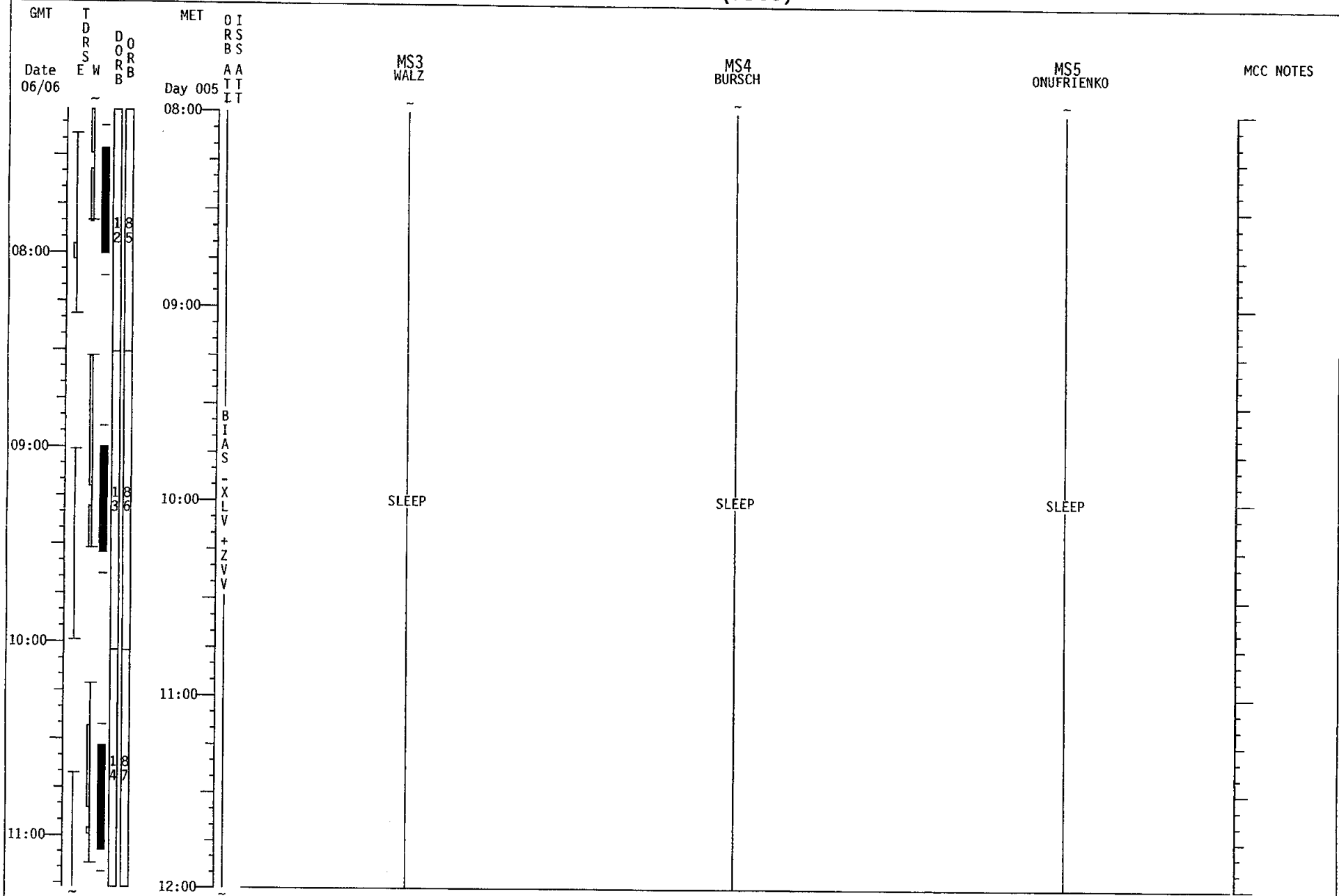




# STS-111 UF-2 (FD06)



# STS-111 UF-2 (FD06)



# STS-111 UF-2 (FD07)

GMT Date 06/06	TDRS EW	DORB 18 47	MET Day 005	CDR COCKRELL	PLT LOCKHART	MS1 PERRIN	MS2 CHANG-DIAZ	MCC NOTES
				SLEEP LOG(ORB OPS, DS0634)			SLEEP LOG(ORB OPS, DS0634)	
				POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)			POST SLEEP ACTIVITY (ORB OPS, CREW SYS)	
				06 JHF MODE - OFF A/G PRIVATE MEDICAL CONF	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	GALLEY MORNING CONFIG (ORB OPS, ECLS)	
				POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	EVA PREP (ISS EVA, EVA PREP)	EVA PREP (ISS EVA, EVA PREP)	STOW ACTILIGHT WATCH(ORB OPS, DS0634)	
				COND CWC CHANGEOUT Ref. MSG XXX			EVA PREP (ISS EVA, EVA PREP)	
				EVA 2 INHIBIT PAD (EVA, FS TIMELINES)			<b>FD07 EZ ACTIVITIES</b> OCAC FILTER INSPECT TEPC (STATUS CHECK) (ORB OPS, CREW SYSTEMS) REBOOT PGSCs	
				H/O ATT CONTROL CMG TA to ORB (JOINT OPS, MATED OPS)				
				MNVR (TKR) BIAS -XLV. +YVV TG=2 BV=5 P=157 Y=0 OM=270 A/AUTO/VERN Init TRK (14:10)				
				SUPPLY/WASTE WATER DUMP (ORB OPS, ECLS) Initiate SIMO Dump				
				EXERCISE				
				SUPPLY/WASTE WATER DUMP (ORB OPS, ECLS) Terminate SIMO Dump	AIRLOCK REPRESS TO 14.7 PSI	EMU PURGE (ISS EVA, EVA PREP)	EMU PURGE (ISS EVA, EVA PREP)	

# STS-111 UF-2 (FD07)

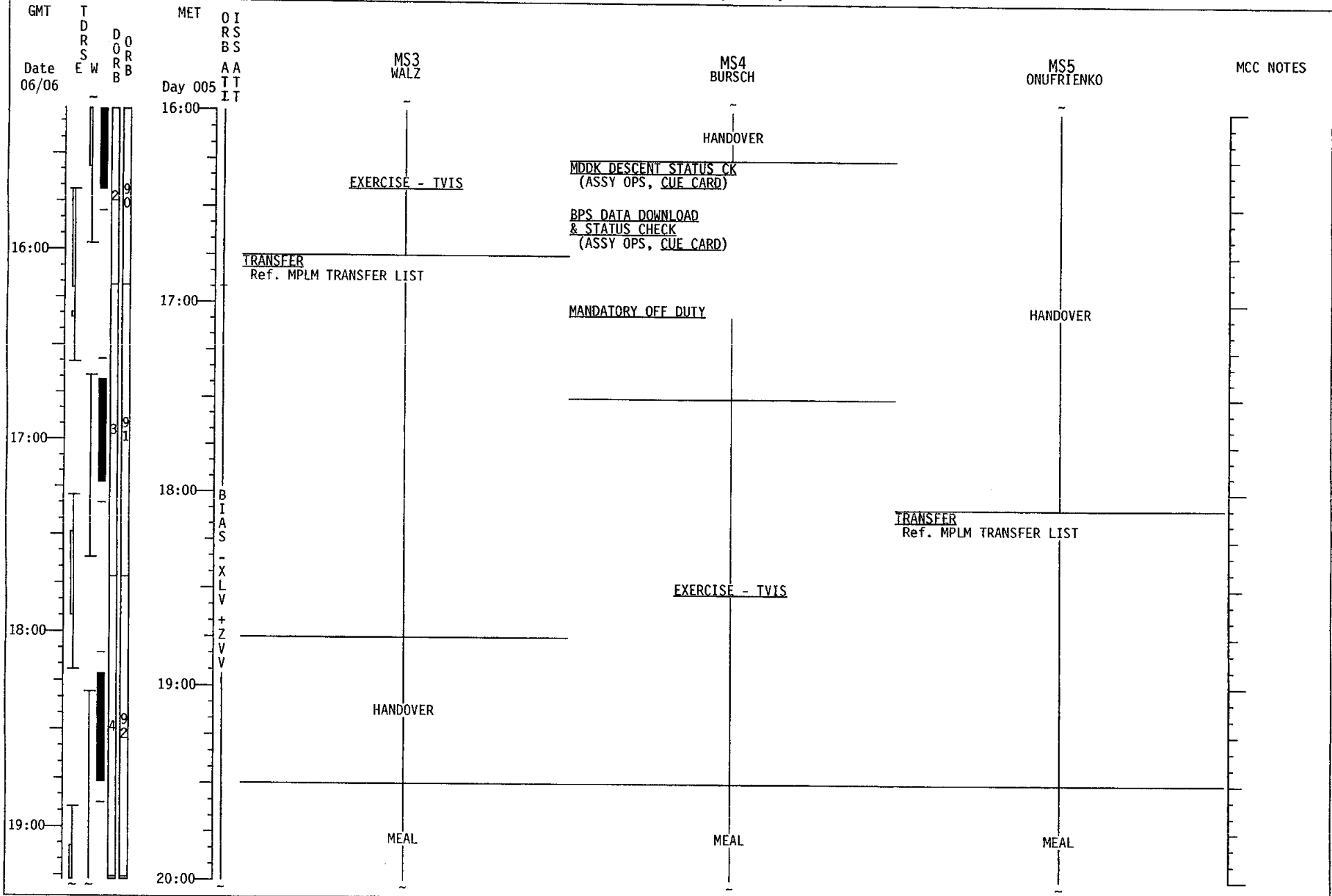
GMT Date 06/06	TDRS E W	DORB ORB	MET Day 005	OIRSBS AA TT TT	MS3 WALZ	MS4 BURSCH	MS5 ONUFRIENKO	MCC NOTES
			12:00					
		1847			<u>POST-SLEEP ACTIVITY</u> (ORB OPS, CREW SYS)	<u>POST-SLEEP ACTIVITY</u> (ORB OPS, CREW SYS)	<u>POST-SLEEP ACTIVITY</u> (ORB OPS, CREW SYS)	
			13:00					
		1858			DAILY PLAN CONF	DAILY PLAN CONF	DAILY PLAN CONF	
			14:00		PREP WORK	PREP WORK	PREP WORK	
					<u>MANDATORY OFF DUTY</u>			
		189	14:00					
			15:00			HANDOVER	HANDOVER	
		190			<u>EXERCISE - TVIS</u>			
			16:00					



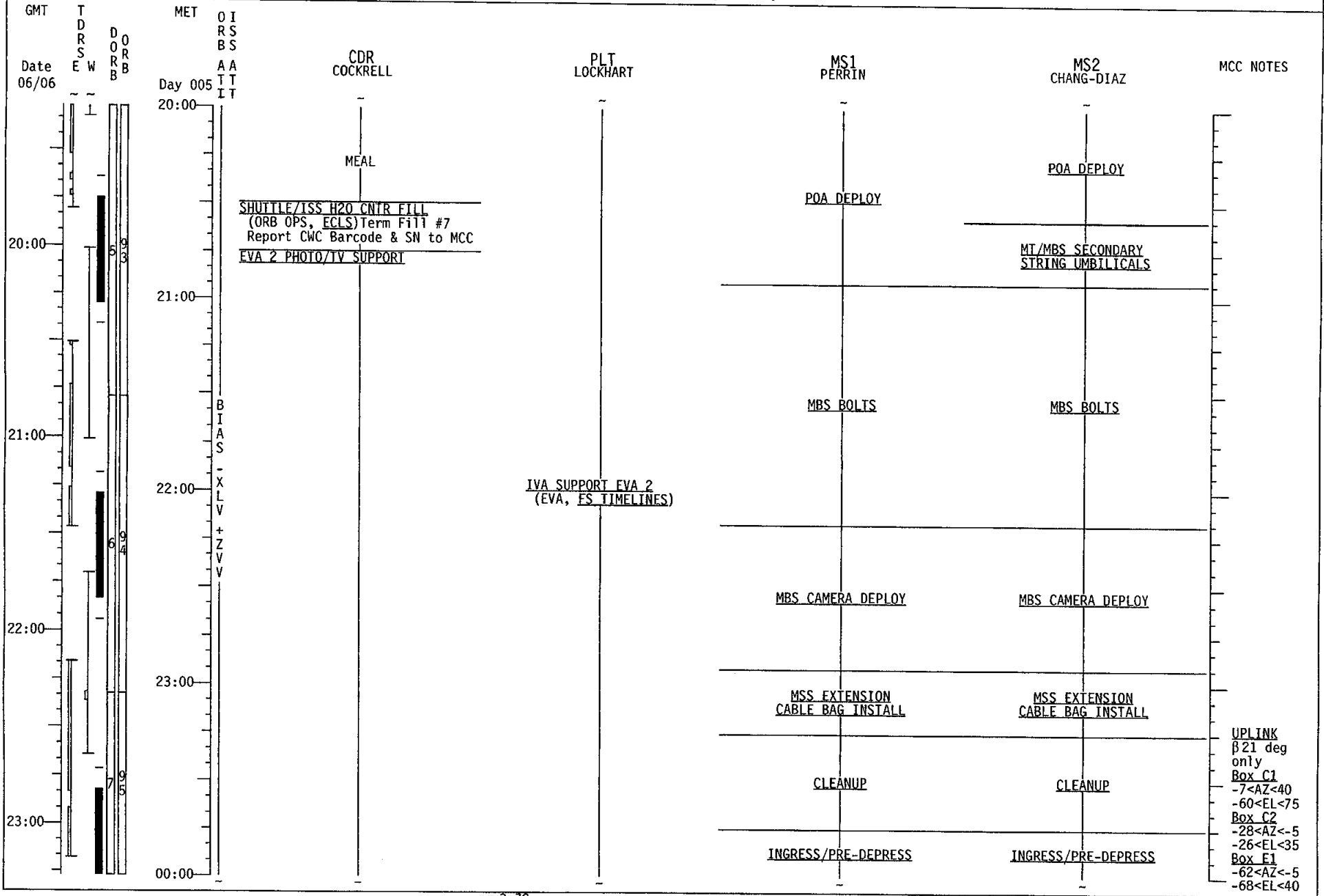
# STS-111 UF-2 (FD07)

GMT	TDRS E W	DORB D O R B	MET Day 005	OIRSBS AA TT IT	CDR COCKRELL	PLT LOCKHART	MS1 PERRIN	MS2 CHANG-DIAZ	MCC NOTES
16:00					<u>SUPPLY/WASTE WATER DUMP</u> (ORB OPS, ECLS) Terminate SIMO Dump <u>CWC OVERBOARD DUMP</u> (ORB OPS, CWC) Dump CWC SN TBS	<u>AIRLOCK REPRESS TO 14.7 PSI</u>	<u>EMU PURGE</u> (ISS EVA, EVA PREP) <u>EMU PREBREATHE</u> (ISS EVA, EVA PREP)	<u>EMU PURGE</u> (ISS EVA, EVA PREP) <u>EMU PREBREATHE</u> (ISS EVA, EVA PREP)	
16:00					<u>Update Master Transfer List and Post Pages</u>				
17:00					<u>MNVR (TRK) BIAS -XLV, +ZVV</u> TG=2 BV=5 P=157 Y=0 OM=0 A/AUTO/VERN Init TRK (16:55) <u>H/O ATT CONTROL ORB to CMG TA</u> (JOINT OPS, MATED OPS)	<u>I/A SUPPORT EVA 2</u> (EVA, FS TIMELINES)	<u>CREWLOCK DEPRESS</u> (ISS EVA, DEP/REP)	<u>CREWLOCK DEPRESS</u> (ISS EVA, DEP/REP)	
17:00					<u>IMU SOPA (ORB OPS, GNC)</u> <u>EVA 2 PHOTO/TV SUPPORT</u>	<u>EVA COMM CONEIG (EVA, EVA PREP)</u>			
18:00							<u>POST DEPRESS</u>	<u>POST DEPRESS</u>	
18:00							<u>EGRESS</u>	<u>EGRESS</u>	
18:00									
19:00						<u>I/A SUPPORT EVA 2</u> (EVA, FS TIMELINES)	<u>MT/MBS PRIMARY STRING UMBILICALS</u>	<u>MT/MBS PRIMARY STRING UMBILICALS</u>	
19:00					<u>SHUTTLE/ISS H2O CNTR FILL</u> (ORB OPS, ECLS) Init Fill #7 Add Silver Biocide Only Samples not req'd/Dur~55min				
19:00					MEAL		<u>POA DEPLOY</u>	<u>POA DEPLOY</u>	
20:00									

# STS-111 UF-2 (FD07)

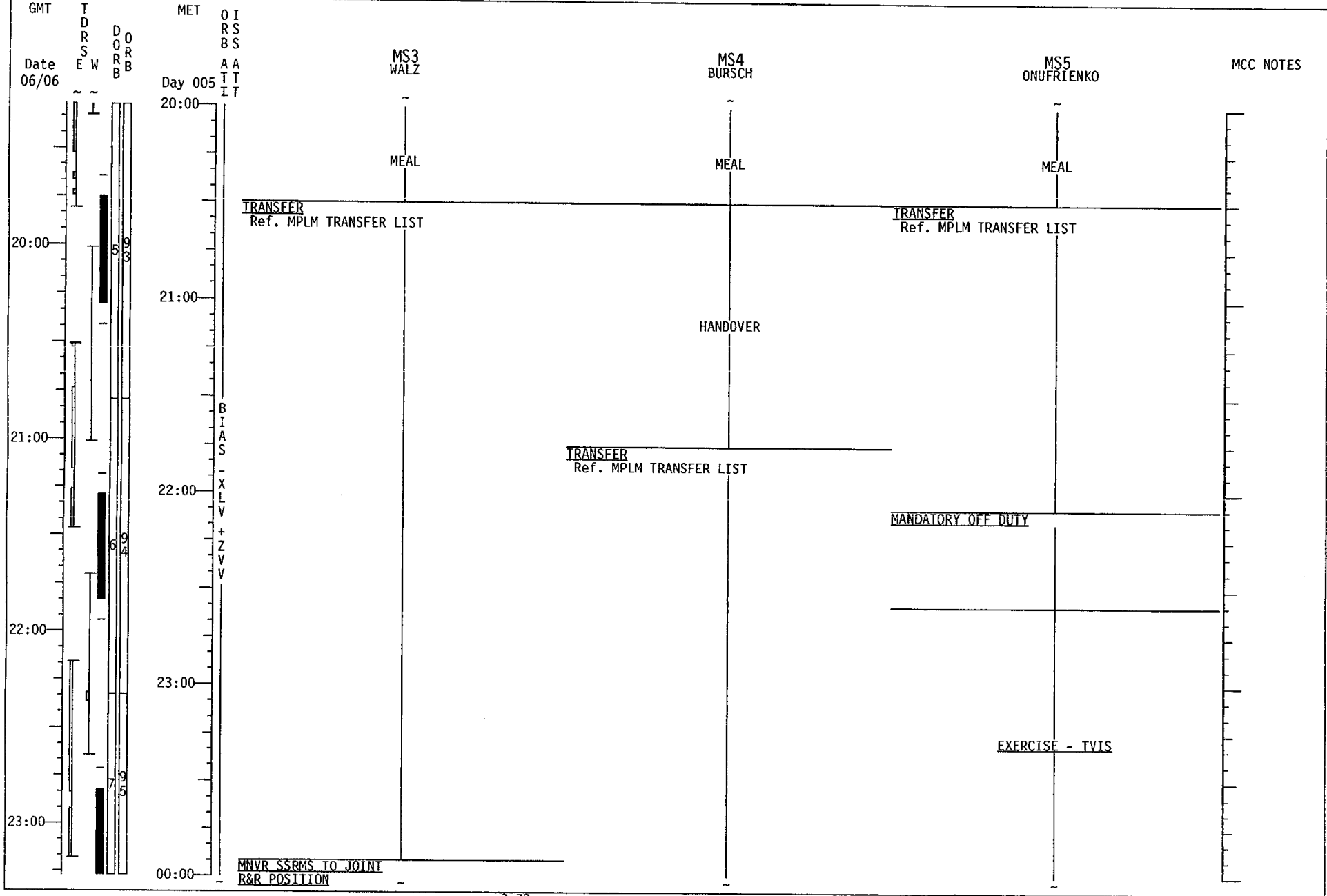


# STS-111 UF-2 (FD07)

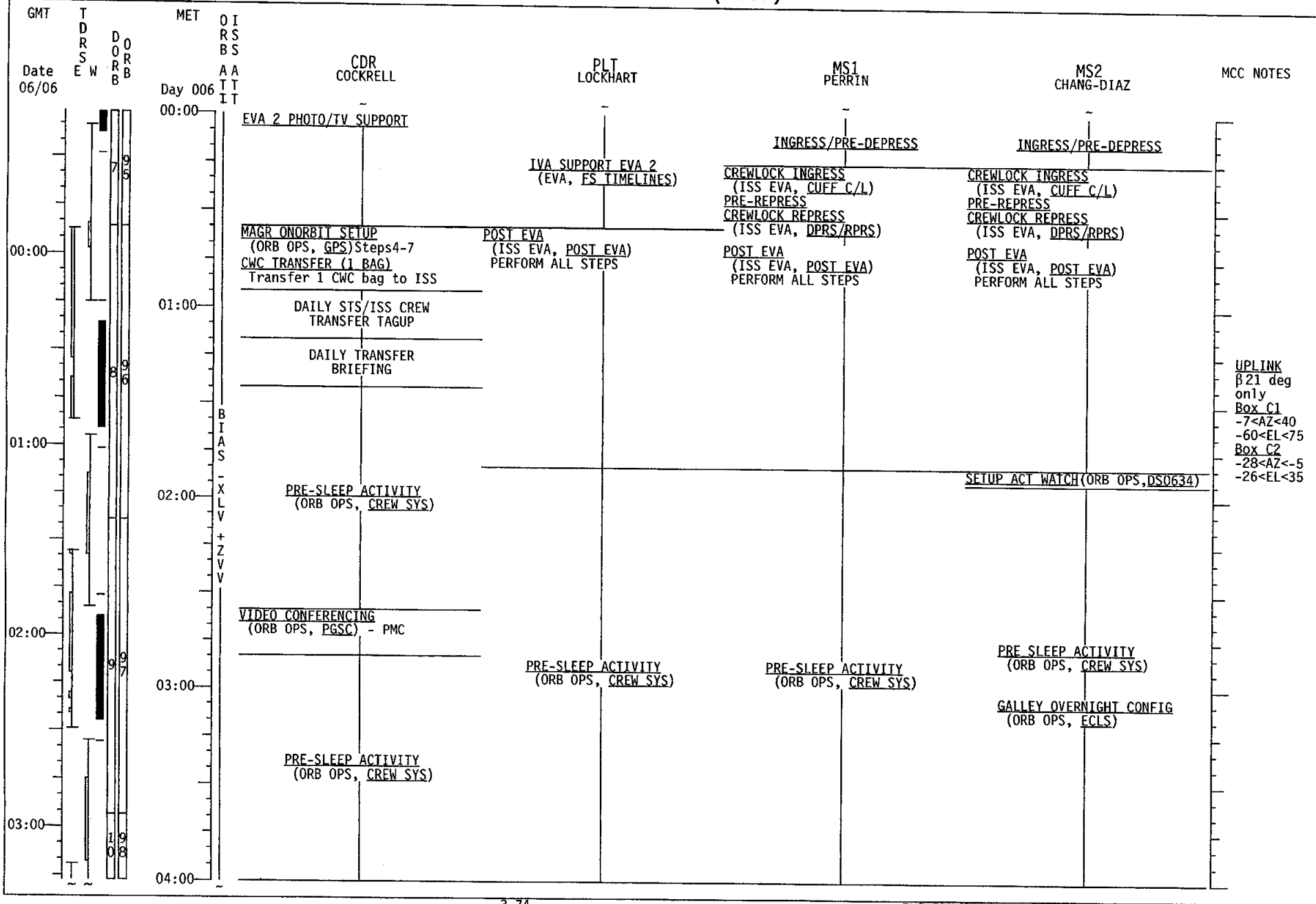


UPLINK  
 β21 deg  
 only  
Box C1  
 -7<AZ<40  
 -60<EL<75  
Box C2  
 -28<AZ<-5  
 -26<EL<35  
Box E1  
 -62<AZ<-5  
 -68<EL<40

# STS-111 UF-2 (FD07)



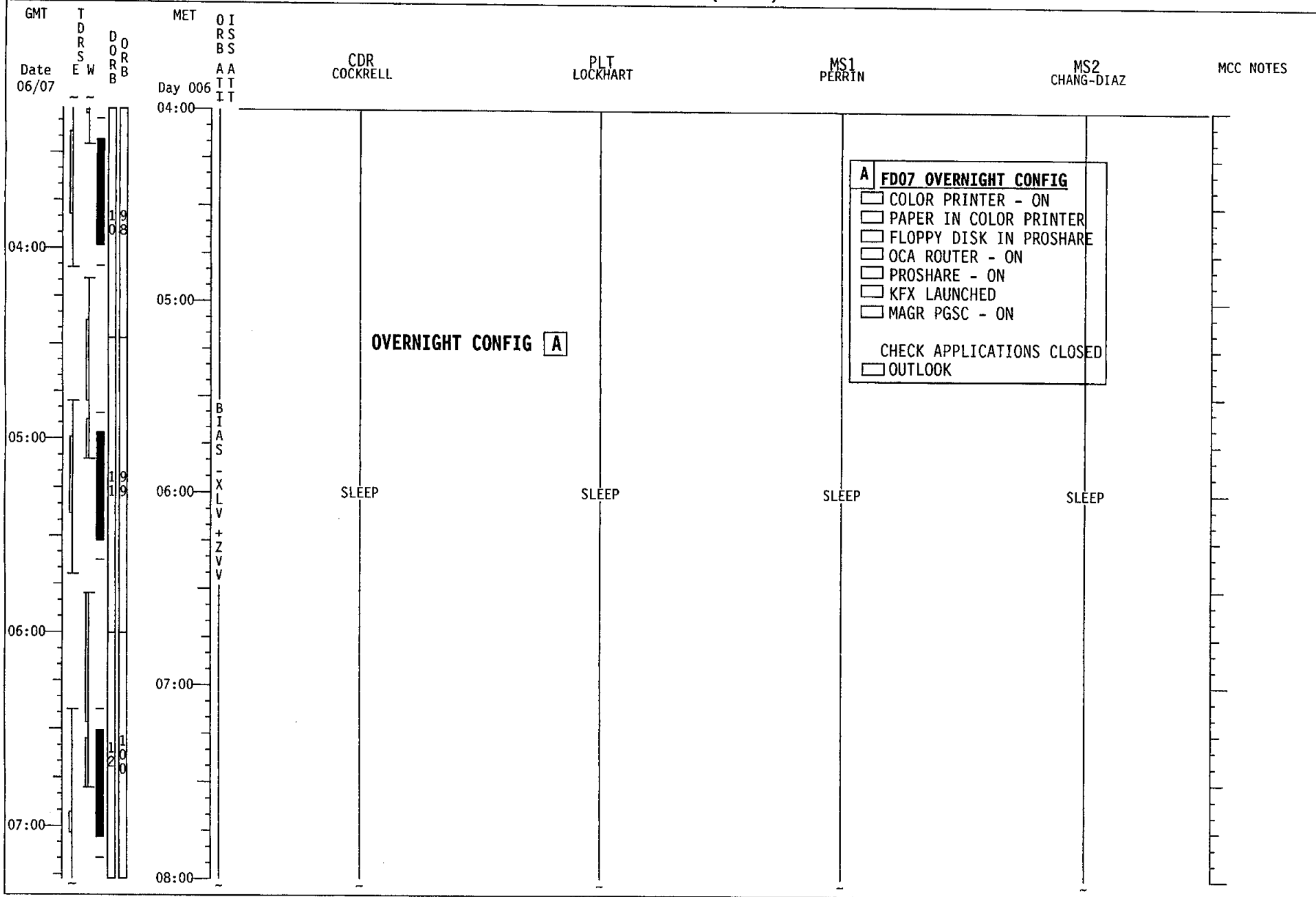
# STS-111 UF-2 (FD07)



# STS-111 UF-2 (FD07)

GMT	TDRS EW	DORB	MET	MS3 WALZ	MS4 BURSCH	MS5 ONUFRIENKO	MCC NOTES
Date 06/06			Day 006				
			00:00	MNVR SSRMS TO JOINT R&R POSITION	TRANSFER Ref. MPLM TRANSFER LIST		
			00:00	MDDK DESCENT STATUS CK (ASSY OPS, CUE CARD) Step2		PHONE CDR IMS Ref. RODF	
			01:00	PLAN REVIEW	PLAN REVIEW	PLAN REVIEW	
			01:00	PREP WORK	PREP WORK	PREP WORK	
			02:00	DAILY PLAN CONF	DAILY PLAN CONF	DAILY PLAN CONF	
			03:00	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	
			04:00				

# STS-111 UF-2 (FD07)

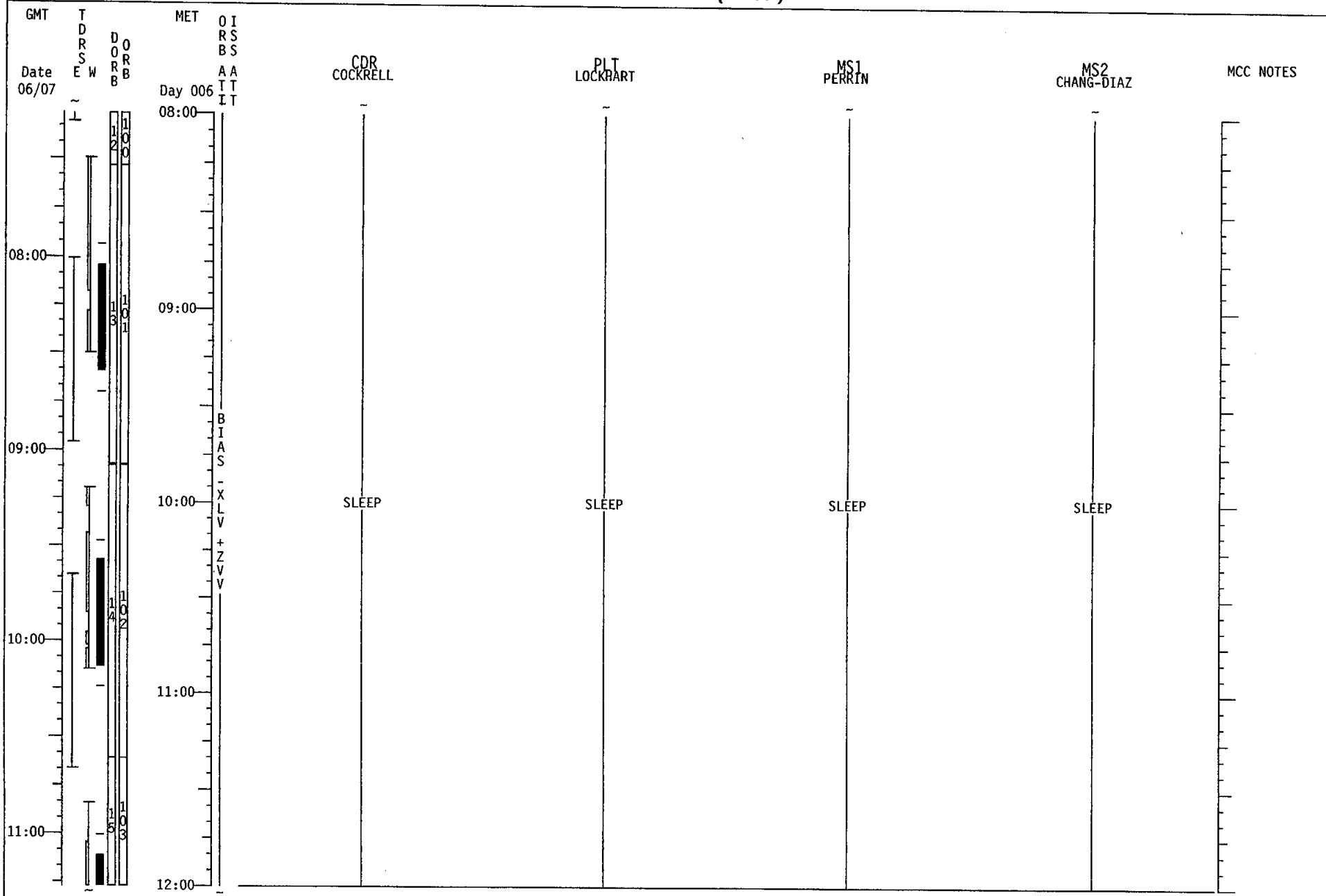


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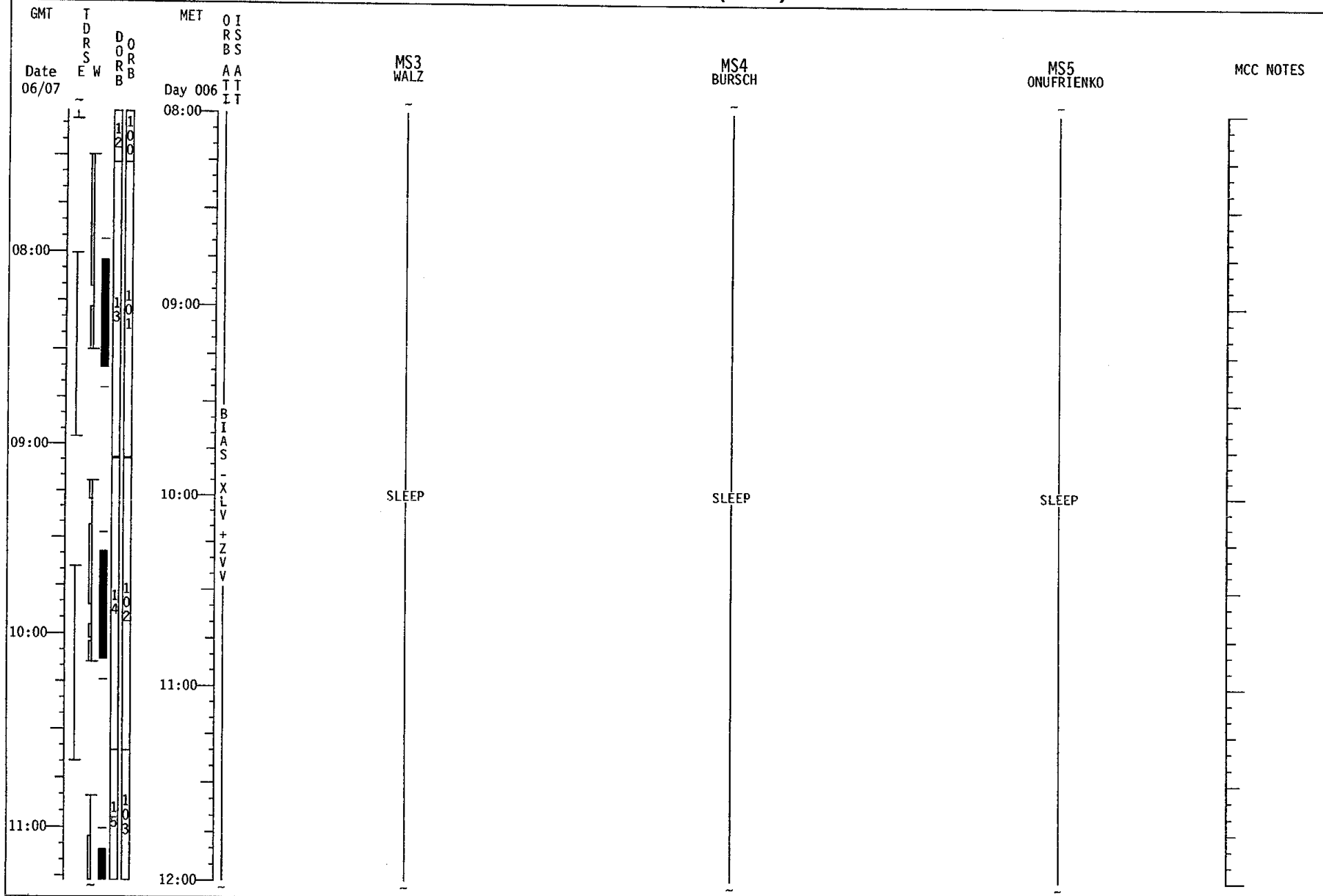
GMT Date 06/07	TDRSEW DORB	MET Day 006	OIRSBS AA TT TT	MS3 WALZ	MS4 BURSCH	MS5 ONUFRIENKO	MCC NOTES
<div style="display: flex; flex-direction: column; align-items: center;"> <div style="display: flex; align-items: center; margin-bottom: 5px;"> <span style="margin-right: 5px;">04:00</span> </div> <div style="display: flex; align-items: center; margin-bottom: 5px;"> <span style="margin-right: 5px;">05:00</span> </div> <div style="display: flex; align-items: center; margin-bottom: 5px;"> <span style="margin-right: 5px;">06:00</span> </div> <div style="display: flex; align-items: center;"> <span style="margin-right: 5px;">07:00</span> </div> </div>	<div style="display: flex; flex-direction: column; align-items: center;"> <div style="display: flex; align-items: center; margin-bottom: 5px;"> <span style="margin-right: 5px;">04:00</span> </div> <div style="display: flex; align-items: center; margin-bottom: 5px;"> <span style="margin-right: 5px;">05:00</span> </div> <div style="display: flex; align-items: center; margin-bottom: 5px;"> <span style="margin-right: 5px;">06:00</span> </div> <div style="display: flex; align-items: center;"> <span style="margin-right: 5px;">07:00</span> </div> </div>	<p>SLEEP</p>	<p>SLEEP</p>	<p>SLEEP</p>			



# STS-111 UF-2 (FD07)



# STS-111 UF-2 (FD07)



# STS-111 UF-2 (FD08)

GMT Date 06/07	TDRSEW DOORB	MET Day 006	OIRSB AAITIT	CDR COCKRELL	PLT LOCKHART	MS1 PERRIN	MS2 CHANG-DIAZ	MCC NOTES
		12:00		<u>SLEEP LOG(ORB OPS, DS0634)</u>			<u>SLEEP LOG(ORB OPS, DS0634)</u>	
		12:00				<b>FD08 EZ ACTIVITIES</b> <u>OCAC FILTER INSPECT</u> <u>TEPC (STATUS CHECK)</u> <u>(ORB OPS, CREW SYSTEMS)</u> <u>REBOOT PGSCs</u> <u>L17 Check MCIU Filter Screen</u>		
		13:00		<u>POST-SLEEP ACTIVITY</u> (ORB OPS, CREW SYS)	<u>POST-SLEEP ACTIVITY</u> (ORB OPS, CREW SYS)	<u>POST-SLEEP ACTIVITY</u> (ORB OPS, CREW SYS)	<u>POST SLEEP ACTIVITY</u> (ORB OPS, CREW SYS)	
		13:00	BIAS				<u>GALLEY MORNING CONFIG</u> (ORB OPS, ECLS)	
		14:00	XLV					
		14:00	+ZVV	<u>Update Master Transfer List and Post Pages</u>				
		14:00				<u>EVCREW: TAKE 1 ASPIRIN(325mg)</u>	<u>EVCREW: TAKE 1 ASPIRIN(325mg)</u>	
		15:00		<u>H/O AIT CONTROL CMG TA to ORB</u> (JOINT OPS, MATED OPS)	<u>MDDK DESCENT STATUS CK</u> (ASSY OPS, CUE CARD)	<u>OXYGEN TRANSFER SETUP</u> (JOINT OPS, MATED OPS) Steps 5-6		
		15:00		<u>MNVR (TRK)BIAS -ZLV +XVV</u> TG=2 BV=5 P=120 Y=0 OM=180 A/AUTO/VERN Init TRK (15:10)	<u>TRANSFER</u> Ref. MDDK TRANSFER LIST	<u>O2 XFER TO HIGH PRESSURE TANK</u> (JOINT OPS, MATED OPS) Init Xfer	<u>EXERCISE</u>	
		15:00	REBOOST	<u>AUTO REBOOST</u> (ORB OPS, REBOOST/DAP) CONFIG 4	<u>AUTO REBOOST</u> (ORB OPS, REBOOST/DAP) CONFIG 4	<u>O2 XFER TO LOW PRESSURE TANK</u> (JOINT OPS, MATED OPS) Init Xfer		
		16:00				<u>TRANSFER</u> Ref. MPLM TRANSFER LIST	<u>TRANSFER</u> Ref. MPLM TRANSFER LIST	

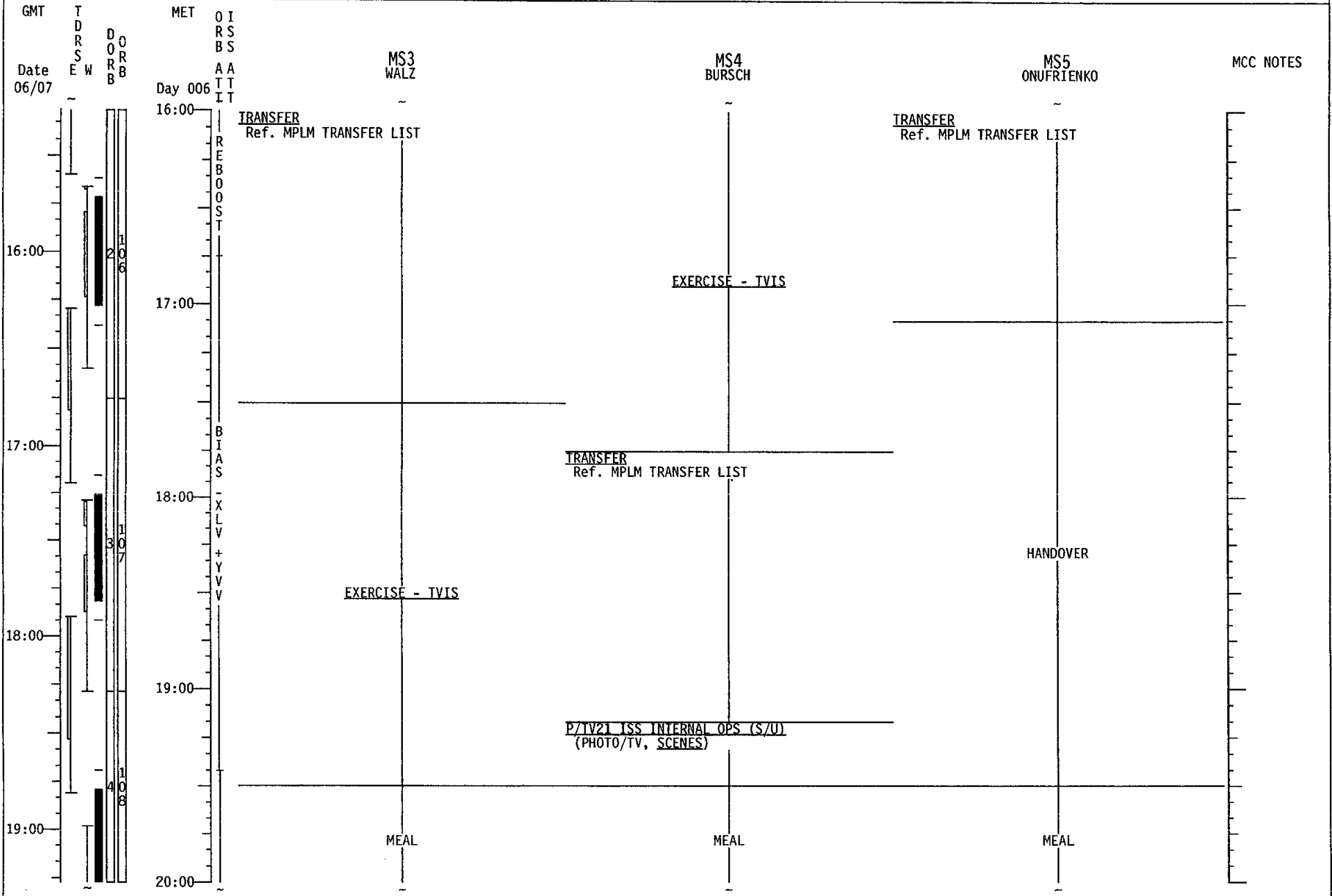
# STS-111 UF-2 (FD08)

GMT Date 06/07	TDRS EW	DORB ORB	MET Day 006	OIRSBS AA TT TT	MS3 WALZ	MS4 BURSCH	MS5 ONUFRIENKO	MCC NOTES
			12:00		SLEEP	SLEEP	SLEEP	
			13:00		POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	
			14:00		DAILY PLAN CONF	DAILY PLAN CONF	DAILY PLAN CONF	
			14:00		PREP WORK	PREP WORK	PREP WORK	
			15:00		OXYGEN TRANSFER SETUP (JOINT OPS, MATED OPS) Steps 5-6		OXYGEN TRANSFER SETUP (JOINT OPS, MATED OPS) Steps 5-6	
			15:00		O2 XFER TO HIGH PRESSURE TANK (JOINT OPS, MATED OPS) Init Xfer	HANDOVER	O2 XFER TO HIGH PRESSURE TANK (JOINT OPS, MATED OPS) Init Xfer	
			15:00		O2 XFER TO LOW PRESSURE TANK (JOINT OPS, MATED OPS) Init Xfer		O2 XFER TO LOW PRESSURE TANK (JOINT OPS, MATED OPS) Init Xfer	
			16:00		TRANSFER Ref. MPLM TRANSFER LIST	EXERCISE - TVIS	TRANSFER Ref. MPLM TRANSFER LIST	

# STS-111 UF-2 (FD08)

GMT	TDRS EW	DORB	MET	OIRSBS	CDR COCKRELL	PLT LOCKHART	MS1 PERRIN	MS2 CHANG-DIAZ	MCC NOTES
Date 06/07			Day 006	ATTIT					
16:00			REBOOST		AUTO REBOOST (ORB OPS, REBOOST/DAP) CONFIG 4	AUTO REBOOST (ORB OPS, REBOOST/DAP) CONFIG 4	TRANSFER Ref. MPLM TRANSFER LIST	TRANSFER Ref. MPLM TRANSFER LIST	
16:00		2			MNVR (TRK) BIAS -XLV, +YVV TG=2 BV=5 P=157 Y=0 OM=270 A/AUTO/VERN Init TRK (16:45)		LOAD EVA F5 CAMERAS (EVA F5 CUE CARD)		
17:00					SUPPLY/WASTE WATER DUMP (ORB OPS, ECLS) Initiate Supply Dump	EXERCISE	REBA INSTALL (ISS EVA, EMU MAINT/RECHARGE)	REBA INSTALL (ISS EVA, EMU MAINT/RECHARGE)	
17:00			BIAS		PWR OVERBOARD DUMP (ORB OPS, ECLS) Dump 2 PWR Bags, SNs 1011 & 1012		SAFER CHECKOUT (ISS EVA, CHECKOUTS)	SAFER CHECKOUT (ISS EVA, CHECKOUTS)	
18:00						TRANSFER Ref. MPLM TRANSFER LIST	EMU METOX INSTALLATION (ISS EVA, A/L CONFIG)	EMU METOX INSTALLATION (ISS EVA, A/L CONFIG)	
18:00		3			CWC OVERBOARD DUMP (ORB OPS, CWC) Dump CWC SN TBS		EQUIPMENT LOCK PREP (ISS EVA, EVA PREP)	EQUIPMENT LOCK PREP (ISS EVA, EVA PREP)	
18:00					SUPPLY/WASTE WATER DUMP (ORB OPS, ECLS) Terminate Supply Dump				
18:00					CWC OVERBOARD DUMP (ORB OPS, CWC) Dump CWC SN TBS		EVA 3 TOOL CONFIG (EVA, TOOLS/TIMELINES)	EVA 3 TOOL CONFIG (EVA, TOOLS/TIMELINES)	
19:00						PWR FILL (ORB OPS, ECLS) Init Fill #3 Fill SN 1011 Fill Duration - 30 min Report SN to MCC			
19:00		4			MNVR (TRK) BIAS -XLV, +ZVV TG=2 BV=5 P=157 Y=0 OM=0 A/AUTO/VERN Init TRK (19:25)				
19:00					H/O ATT CONTROL ORB to CMG TA (JOINT OPS, MATED OPS)				
20:00					MEAL	MEAL	MEAL	MEAL	

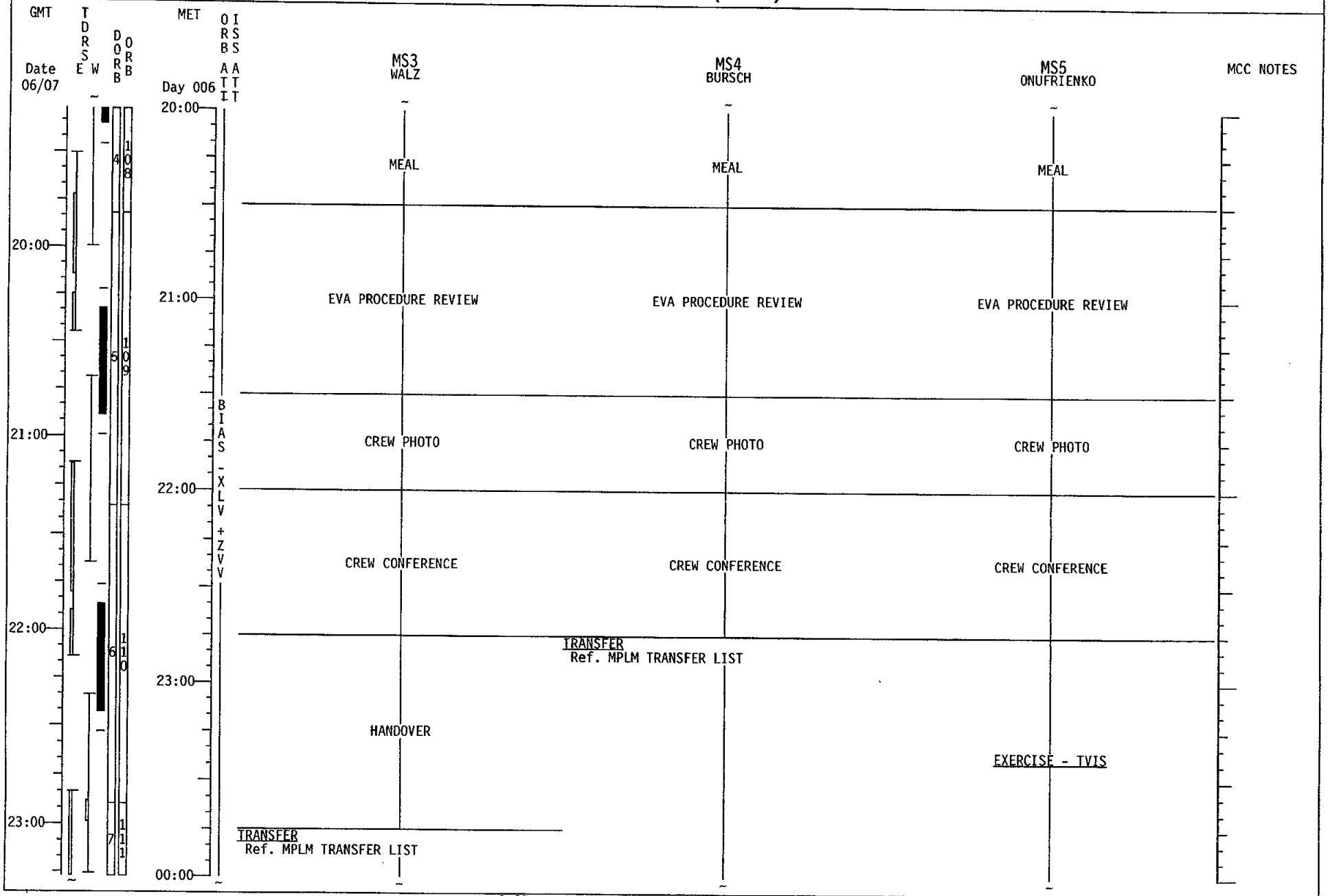
# STS-111 UF-2 (FD08)



# STS-111 UF-2 (FD08)

GMT Date 06/07	TDRS E W	DOORB R B	MET Day 006	OIRSBS AA TT IT	CDR COCKRELL	PLT LOCKHART	MS1 PERRIN	MS2 CHANG-DIAZ	MCC NOTES
			20:00		MEAL	MEAL	MEAL	MEAL	
			21:00		EVA PROCEDURE REVIEW	EVA PROCEDURE REVIEW	EVA PROCEDURE REVIEW	EVA PROCEDURE REVIEW	
			22:00		CREW PHOTO	CREW PHOTO	CREW PHOTO	CREW PHOTO	
			23:00		CREW CONFERENCE	CREW CONFERENCE	CREW CONFERENCE	CREW CONFERENCE	
			23:00		<u>MAGR ONORBIT SETUP</u> (ORB OPS, GPS)Steps4-7	<u>TRANSFER</u> Ref. MPLM TRANSFER LIST		<u>TRANSFER</u> Ref. MPLM TRANSFER LIST	
			23:00		<u>SHUTTLE/ISS H2O CNTR FILL</u> (ORB OPS, ECLS)Init Fill #8 Add Silver Biocide Only <del>Samples not req'd/Dur 55min</del>		EXERCISE		
			00:00		EXERCISE		<u>TRANSFER</u> Ref. MPLM TRANSFER LIST		

# STS-111 UF-2 (FD08)





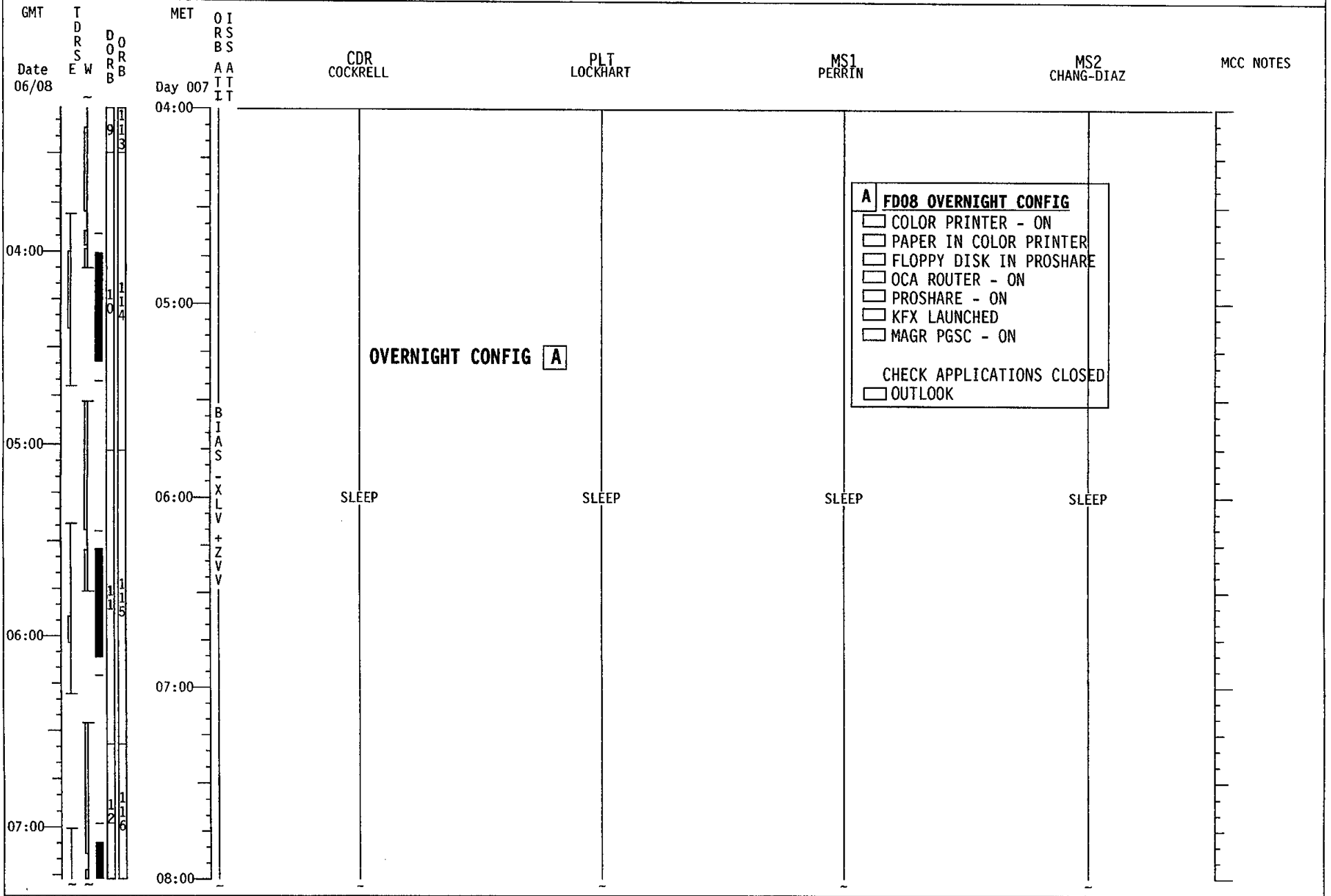
# STS-111 UF-2 (FD08)

GMT	T D R S E W	D O R B	MET	O I R S B S	CDR COCKRELL	PLT LOCKHART	MS1 PERRIN	MS2 CHANG-DIAZ	MCC NOTES
Date 06/07			Day 007	A A I T T					
00:00					EXERCISE	<u>TRANSFER</u> Ref. MPLM TRANSFER LIST	<u>TRANSFER</u> Ref. MPLM TRANSFER LIST	<u>TRANSFER</u> Ref. MPLM TRANSFER LIST	
						<u>WCS COMPACTOR OPS (DUAL-VANE)</u> (CUE CARD)			
00:00					<u>PRE-SLEEP ACTIVITY</u> (ORB OPS, CREW SYS)	<u>SHUTTLE/ISS H2O CNTR FILL</u> (ORB OPS, ECLS) Term Fill #8 Report CWC Barcode & SN to MCC		<u>O2 XFER TO LOW PRESSURE TANK</u> (JOINT OPS, MATED OPS) Term Xfer	
						<u>CWC TRANSFER (1 BAG)</u> Transfer 1 CWC bag to ISS	<u>PWR TRANSFER (1 BAG)</u> Transfer 1 PWR bag to ISS	<u>O2 XFER TO HIGH PRESSURE TANK</u> (JOINT OPS, MATED OPS) Term Xfer	
01:00					<u>NOMINAL H2O CONFIG</u> (ORB OPS, ECLS) FES Pri A req'd			<u>POST TRANSFER O2 SYS RECONFIG</u> (JOINT OPS, MATED OPS) Steps 1-4	
					<u>PRE-SLEEP ACTIVITY</u> (ORB OPS, CREW SYS)				
01:00									
					DAILY STS/ISS CREW TRANSFER TAGUP				
02:00					DAILY TRANSFER BRIEFING				
					<u>VIDEO CONFERENCING</u> (ORB OPS, PGSC) - PMC	<u>PRE-SLEEP ACTIVITY</u> (ORB OPS, CREW SYS)	<u>PRE-SLEEP ACTIVITY</u> (ORB OPS, CREW SYS)	<u>PRE SLEEP ACTIVITY</u> (ORB OPS, CREW SYS)	
02:00								<u>GALLEY OVERNIGHT CONFIG</u> (ORB OPS, ECLS)	
					<u>PRE-SLEEP ACTIVITY</u> (ORB OPS, CREW SYS)				
03:00									
04:00									

# STS-111 UF-2 (FD08)

GMT	TDRS EW	DORB	MET	OIRSBS AA TT IT	MS3 WALZ	MS4 BURSCH	MS5 ONUFRIENKO	MCC NOTES
Date 06/07			Day 007					
00:00					TRANSFER Ref. MPLM TRANSFER LIST	TRANSFER Ref. MPLM TRANSFER LIST		
							EXERCISE - TVIS	
00:00					02 XFER TO LOW PRESSURE TANK (JOINT OPS, MATED OPS)Term Xfer	02 XFER TO LOW PRESSURE TANK (JOINT OPS, MATED OPS)Term Xfer		
					02 XFER TO HIGH PRESSURE TANK (JOINT OPS, MATED OPS)Term Xfer	02 XFER TO HIGH PRESSURE TANK (JOINT OPS, MATED OPS)Term Xfer		
01:00					POST TRANSFER 02 SYS RECONFIG (JOINT OPS, MATED OPS)Steps1-4	POST TRANSFER 02 SYS RECONFIG (JOINT OPS, MATED OPS)Steps1-4		
					TRANSFER Ref. MPLM TRANSFER LIST	MDDK DESCENT STATUS CK (ASSY OPS, CUE CARD)step2	HANDOVER	
01:00						TRANSFER Ref. MPLM TRANSFER LIST		
					DAILY PLAN CONF	DAILY PLAN CONF	DAILY PLAN CONF	
02:00								
02:00								
					PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	PRE-SLEEP ACTIVITY (ORB OPS, CREW SYS)	
03:00								
03:00								
04:00								

# STS-111 UF-2 (FD08)



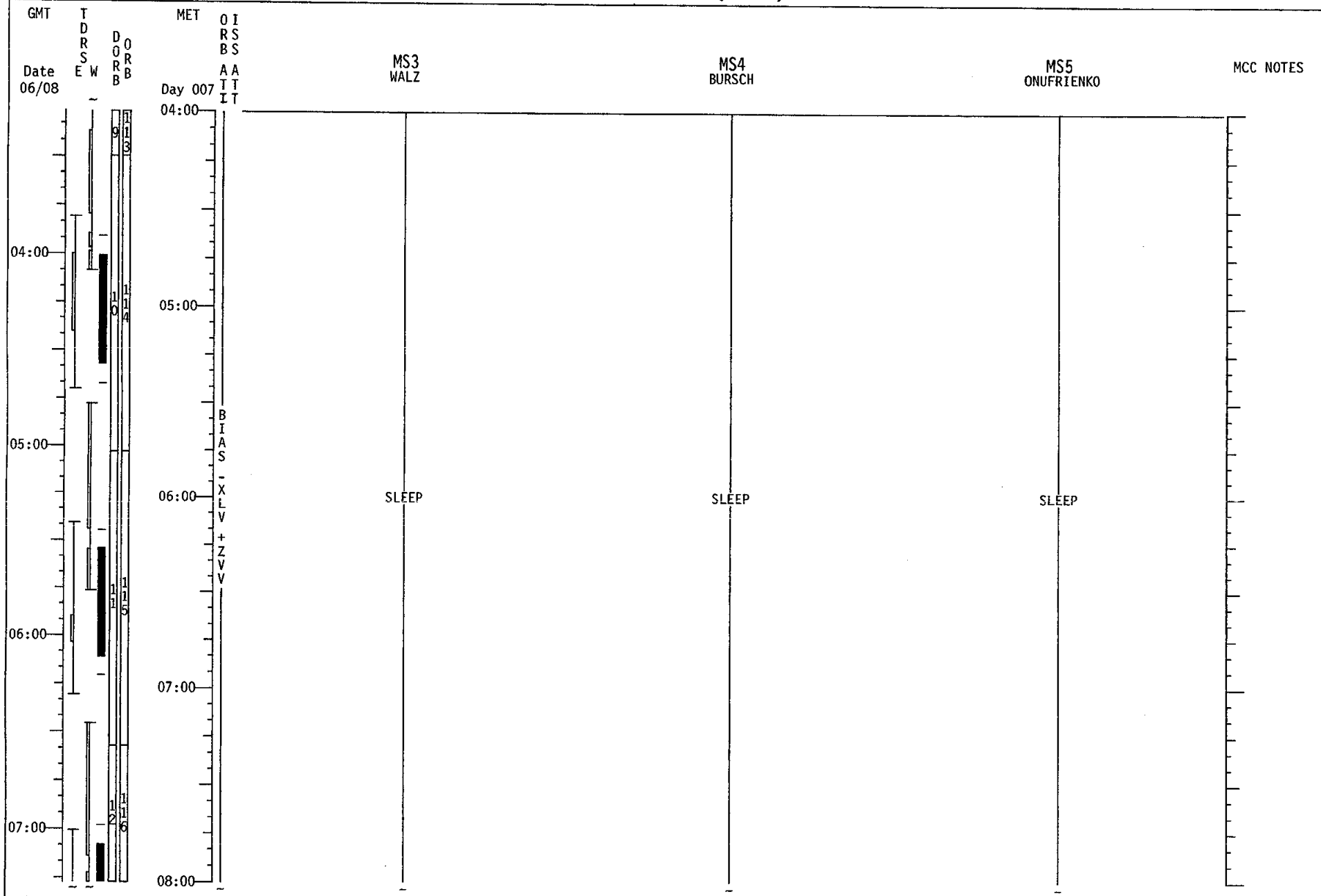
**A | FD08 OVERNIGHT CONFIG**

- COLOR PRINTER - ON
- PAPER IN COLOR PRINTER
- FLOPPY DISK IN PROSHARE
- OCA ROUTER - ON
- PROSHARE - ON
- KFX LAUNCHED
- MAGR PGSC - ON

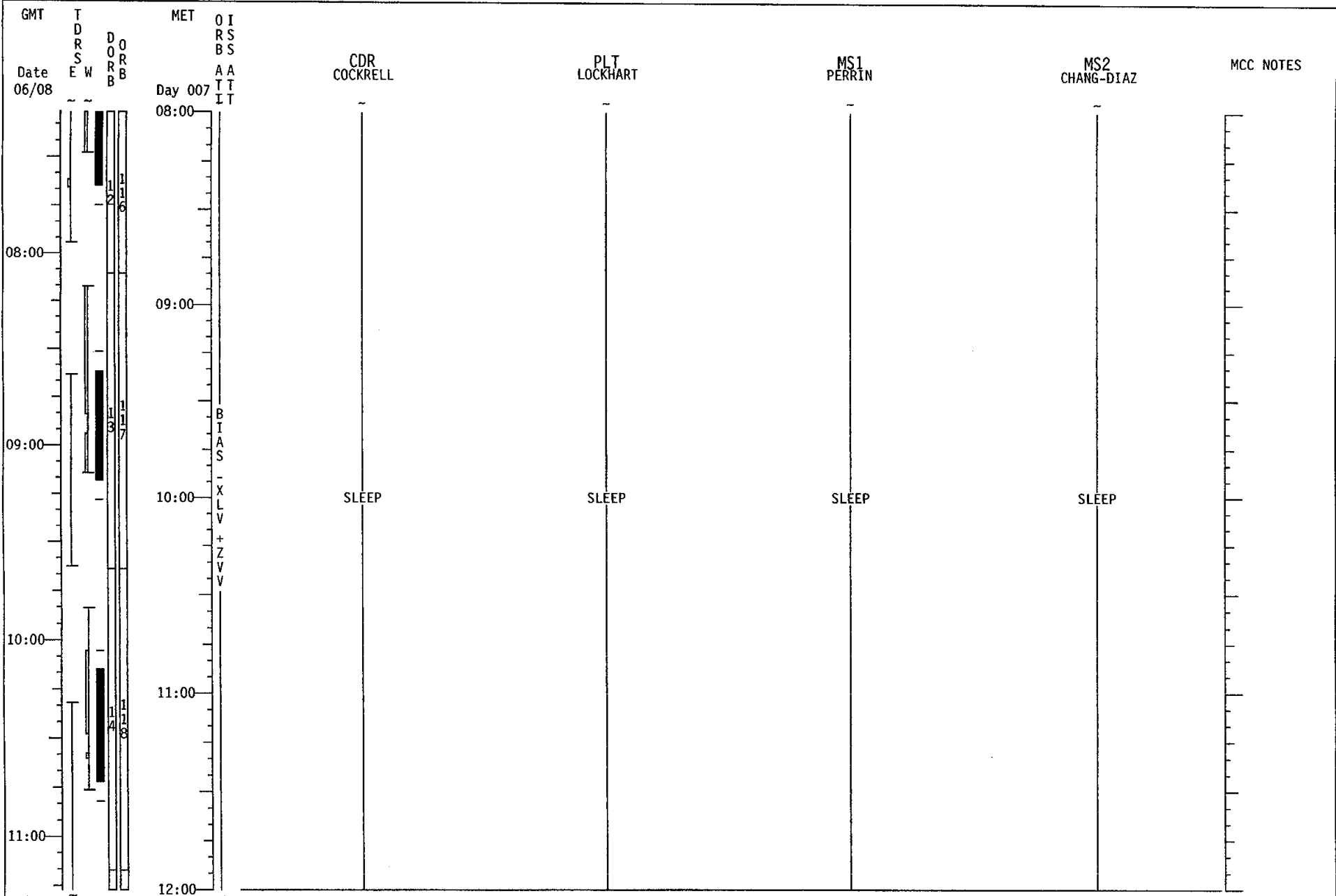
CHECK APPLICATIONS CLOSED

- OUTLOOK

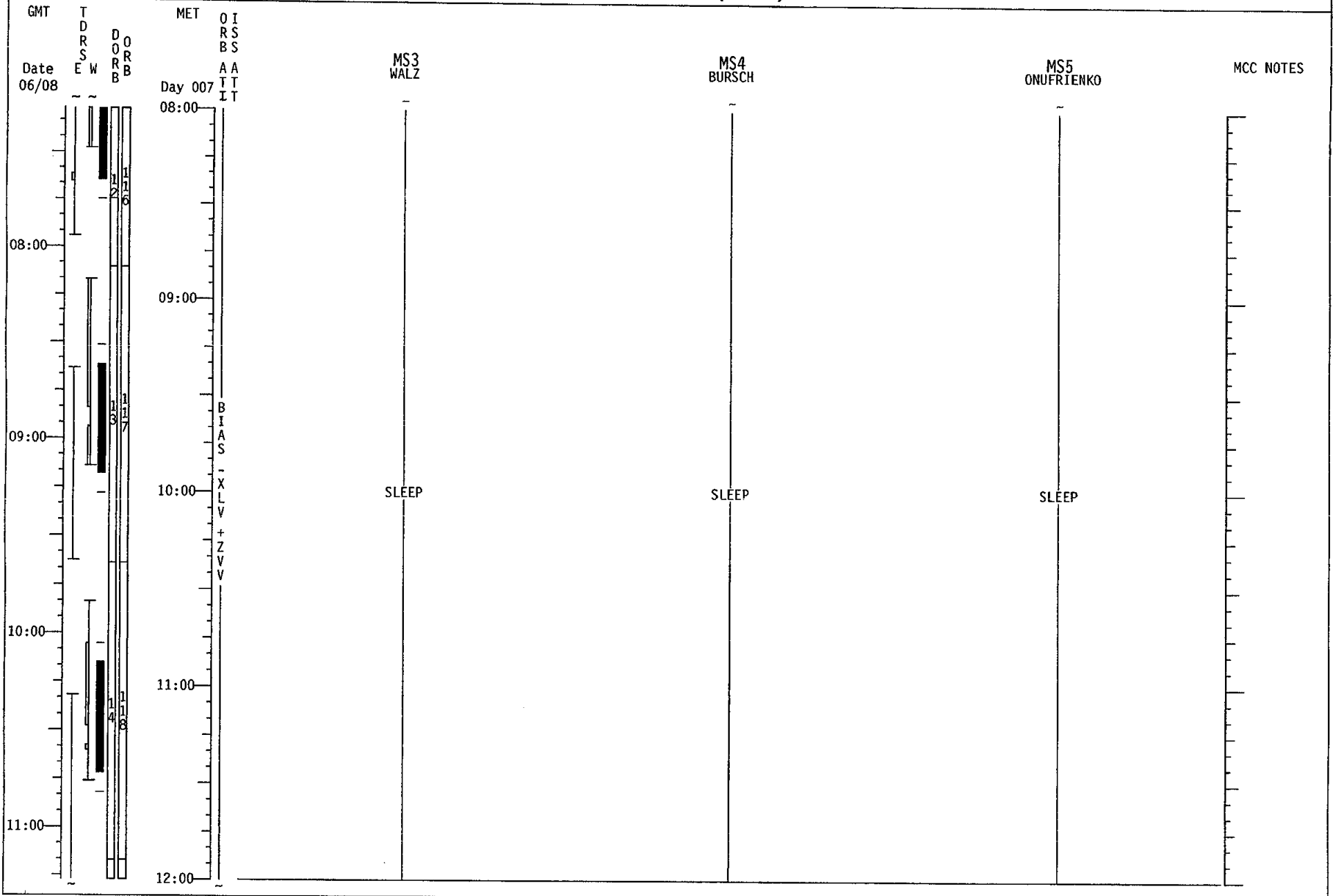
# STS-111 UF-2 (FD08)



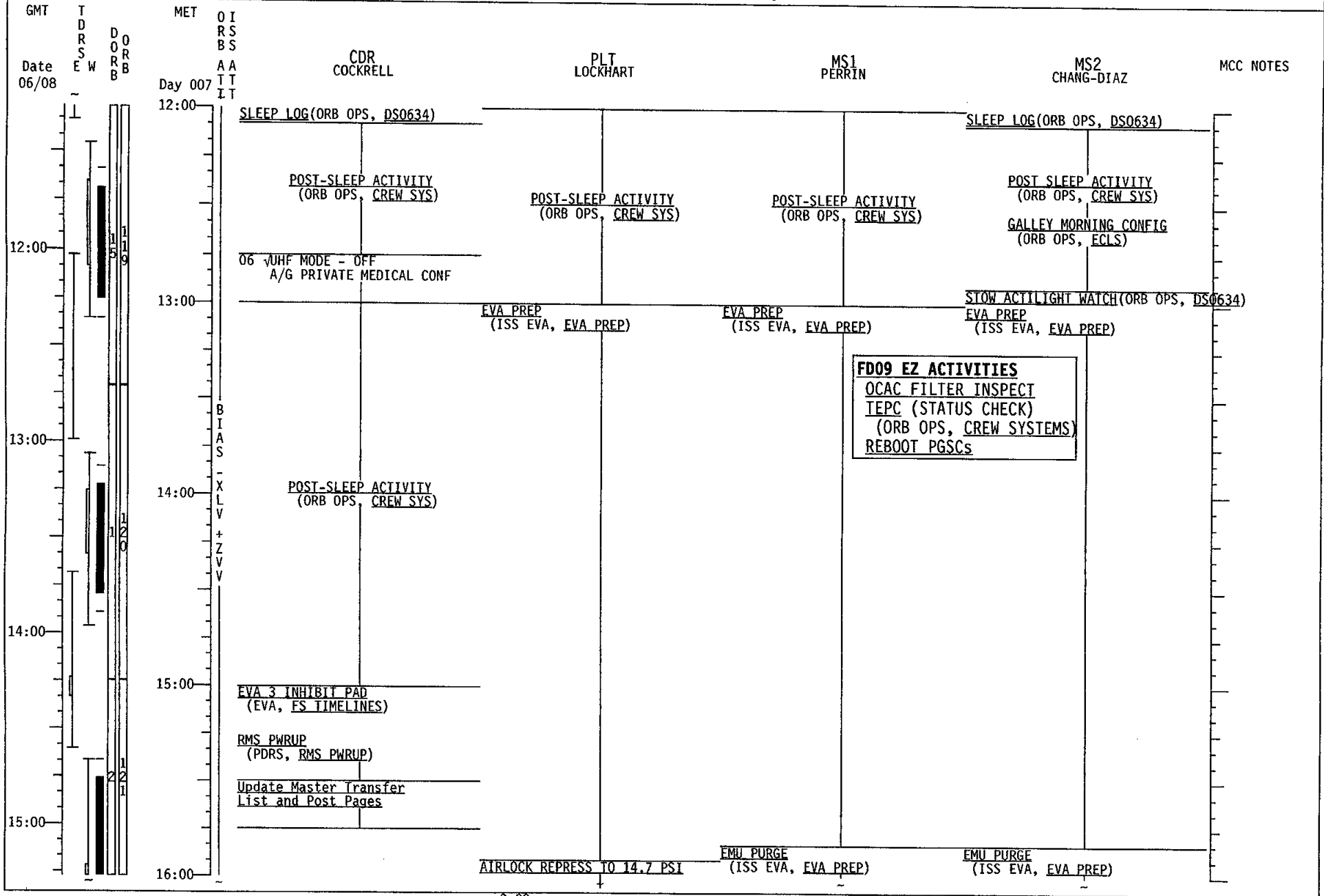
# STS-111 UF-2 (FD08)



# STS-111 UF-2 (FD08)

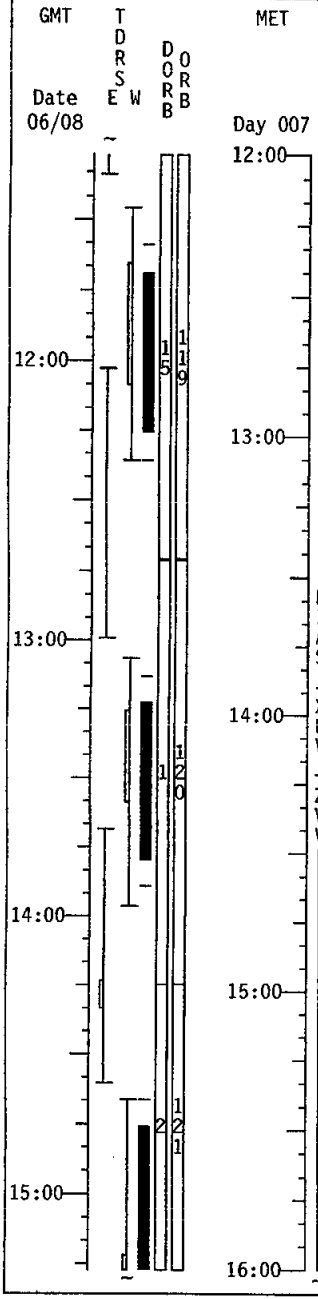


# STS-111 UF-2 (FD09)



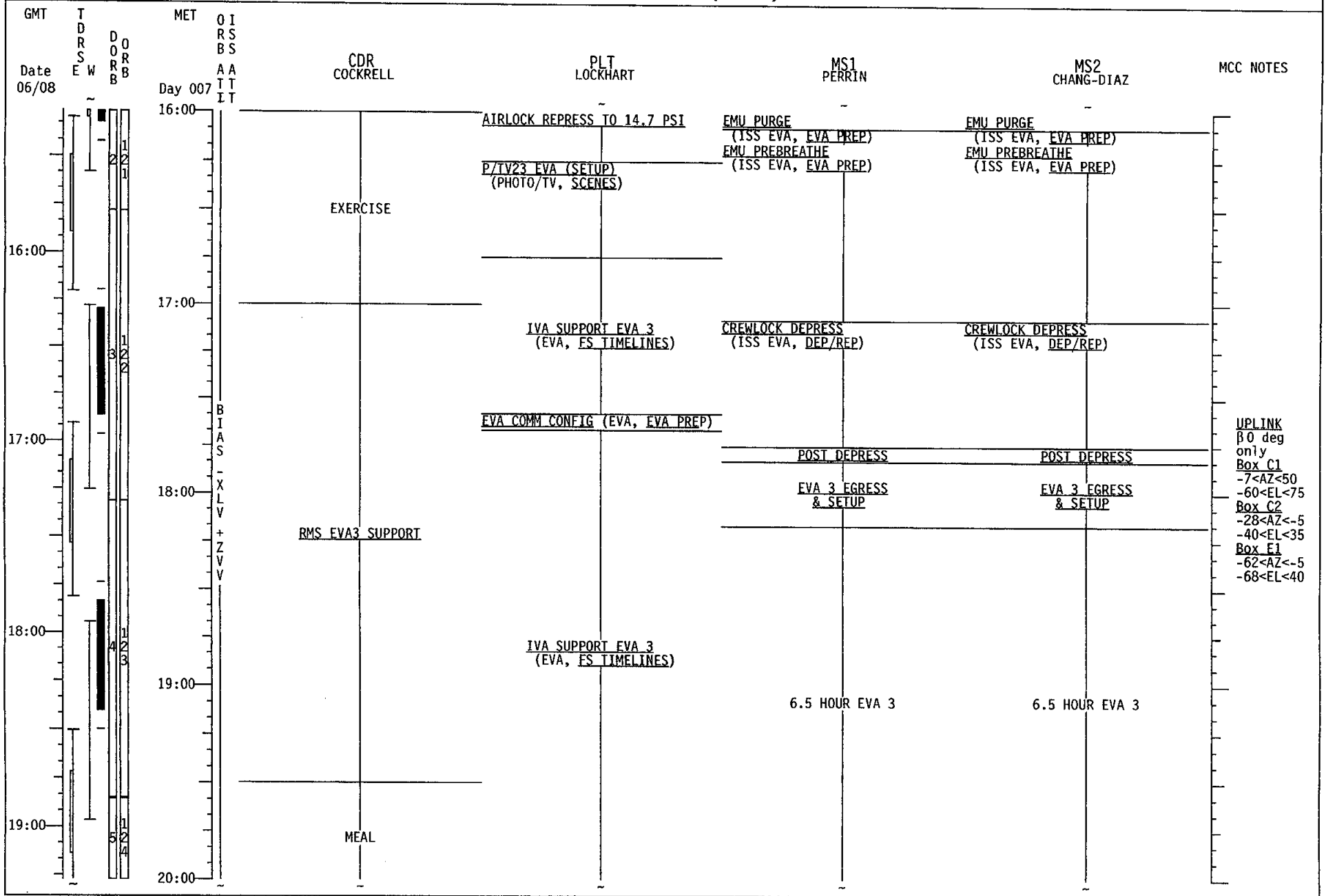
# STS-111 UF-2 (FD09)

GMT Date 06/08	T D R S E W	D O R B	MET Day 007	O I R S B S A A T T I T	MS3 WALZ	MS4 BURSCH	MS5 ONUFRIENKO	MCC NOTES
12:00						POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)		
12:00					POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)		POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	
13:00						EVA PREP (ISS EVA, EVA PREP)		
13:00					DAILY PLAN CONF		DAILY PLAN CONF	
14:00					PREP WORK		PREP WORK	
14:00							NON OADR TRAINING Ref. RODF	
15:00					HANDOVER			
16:00						AIRLOCK REPRESS TO 14.7 PSI		



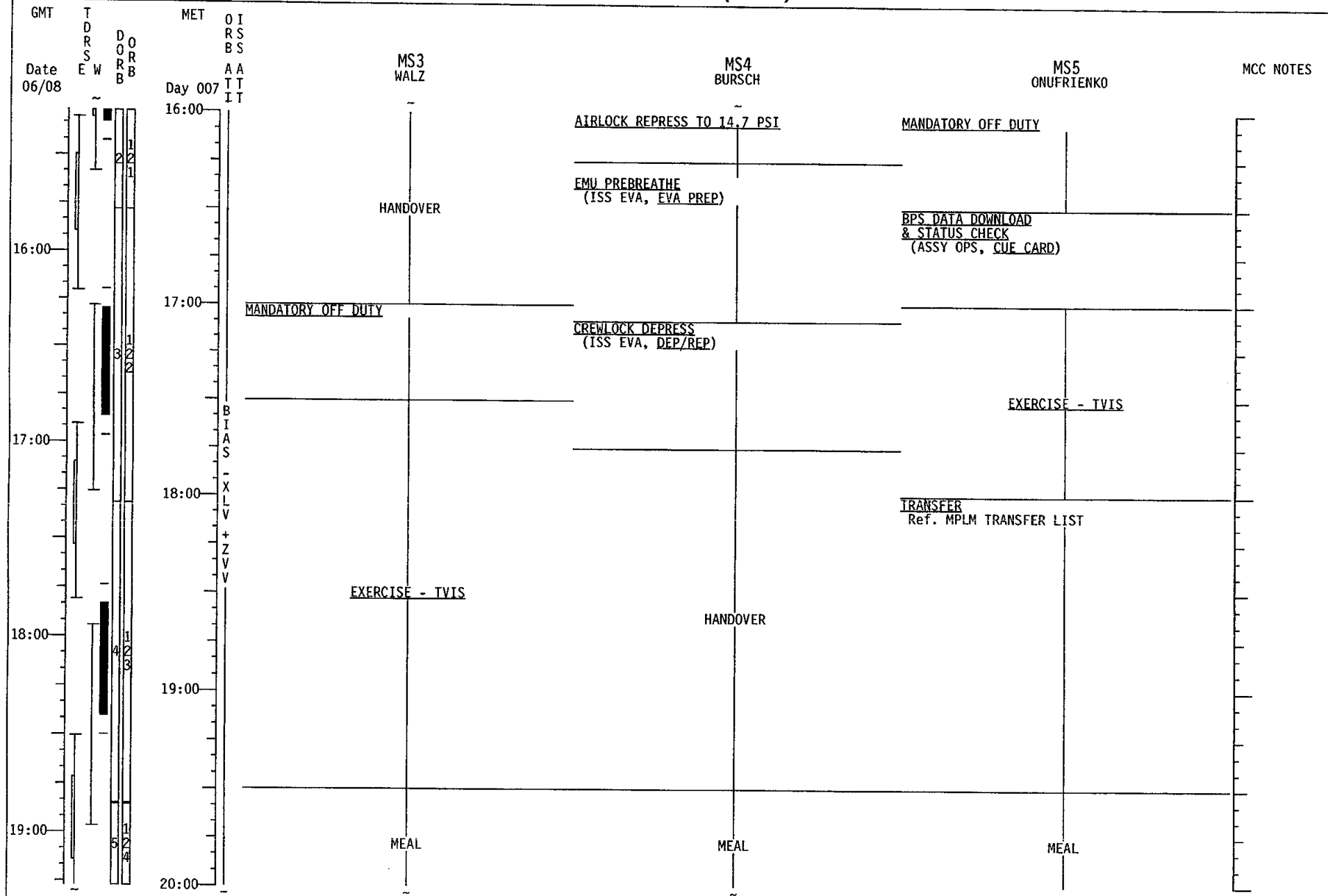


# STS-111 UF-2 (FD09)

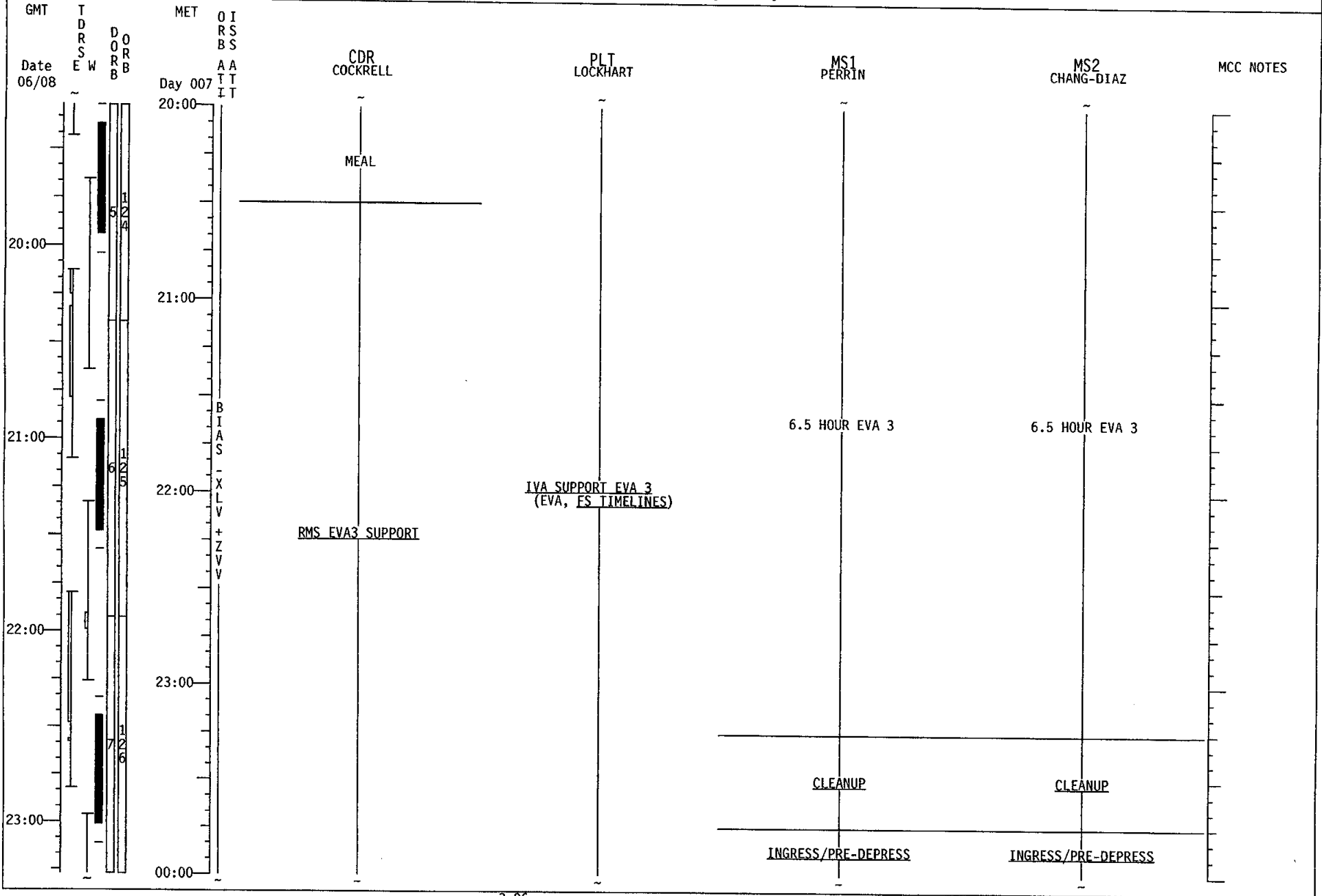


UPLINK  
 0 deg  
 only  
 Box C1  
 -7<AZ<50  
 -60<EL<75  
 Box C2  
 -28<AZ<-5  
 -40<EL<35  
 Box E1  
 -62<AZ<-5  
 -68<EL<40

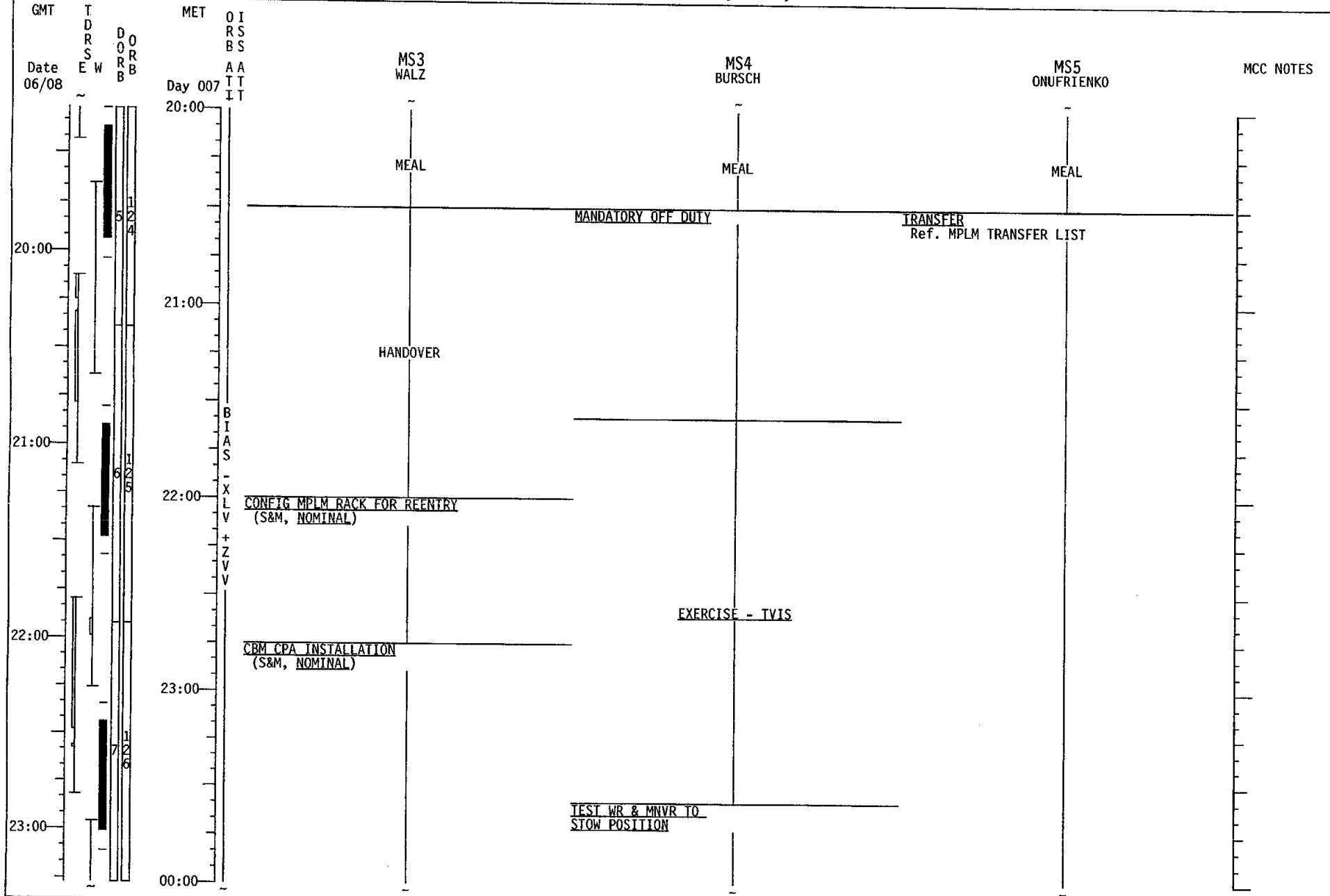
# STS-111 UF-2 (FD09)



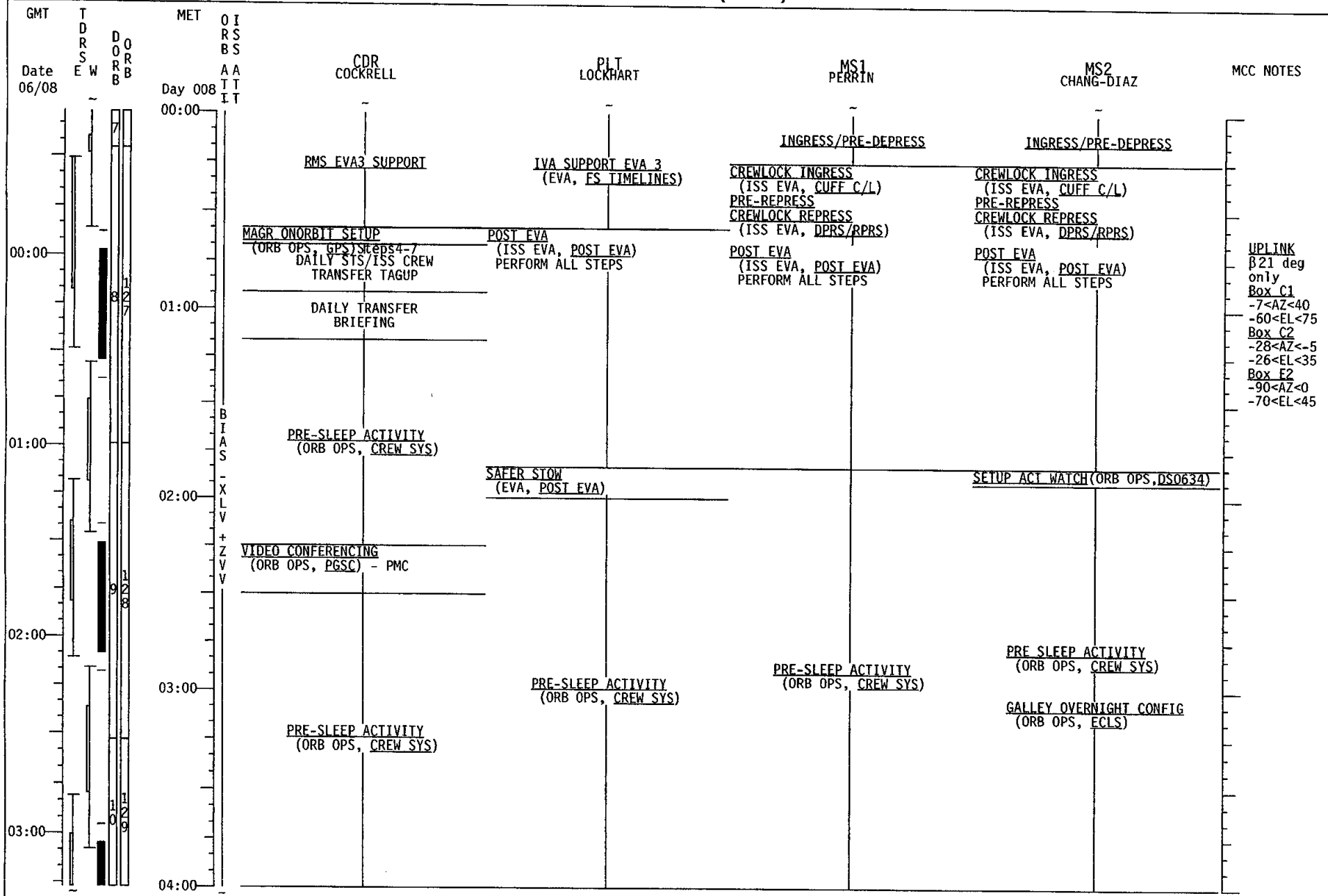
# STS-111 UF-2 (FD09)



# STS-111 UF-2 (FD09)



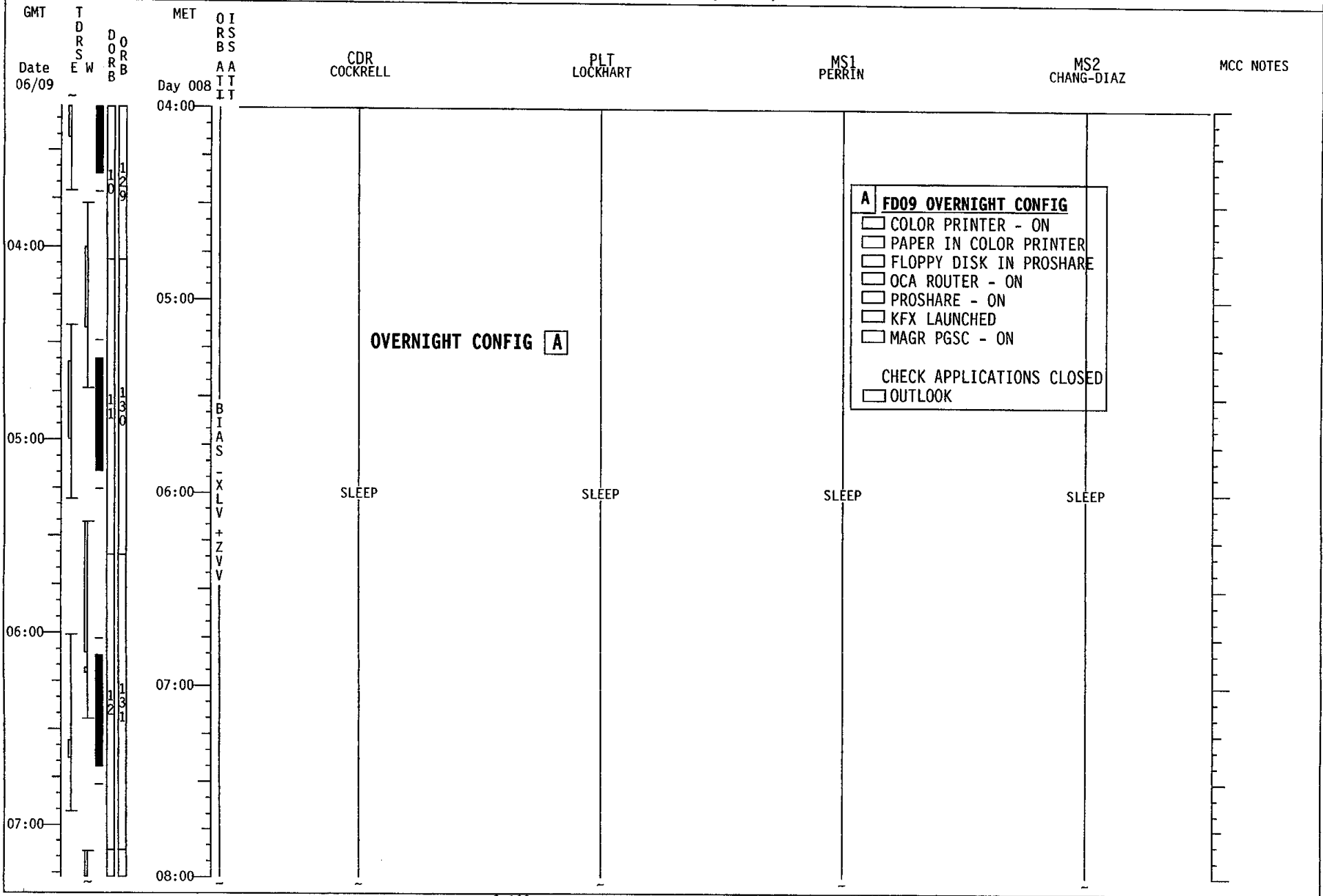
# STS-111 UF-2 (FD09)



# STS-111 UF-2 (FD09)

GMT Date 06/08	TDRS EW	DORB ORB	MET Day 008	MS3 WALZ	MS4 BURSCH	MS5 ONUFRIENKO	MCC NOTES
			00:00	<u>CBM CPA INSTALLATION</u> (S&M, NOMINAL)	<u>TEST WR &amp; MNVR TO</u> <u>STOW POSITION</u>	<u>TRANSFER</u> Ref. MPLM TRANSFER LIST	
			00:00		<u>POST EVA</u> (ISS EVA, POST EVA) PERFORM ALL STEPS		
			01:00	PLAN REVIEW		PLAN REVIEW	
				PREP WORK		PREP WORK	
			02:00	DAILY PLAN CONF	<u>SAFER STOW</u> (EVA, POST EVA) <u>MDDK DESCENT STATUS CK</u> (ASSY OPS, CUE CARD)Step2	DAILY PLAN CONF	
			03:00	<u>PRE-SLEEP ACTIVITY</u> (ORB OPS, CREW SYS)	<u>PRE-SLEEP ACTIVITY</u> (ORB OPS, CREW SYS)	<u>PRE-SLEEP ACTIVITY</u> (ORB OPS, CREW SYS)	
			04:00				

# STS-111 UF-2 (FD09)



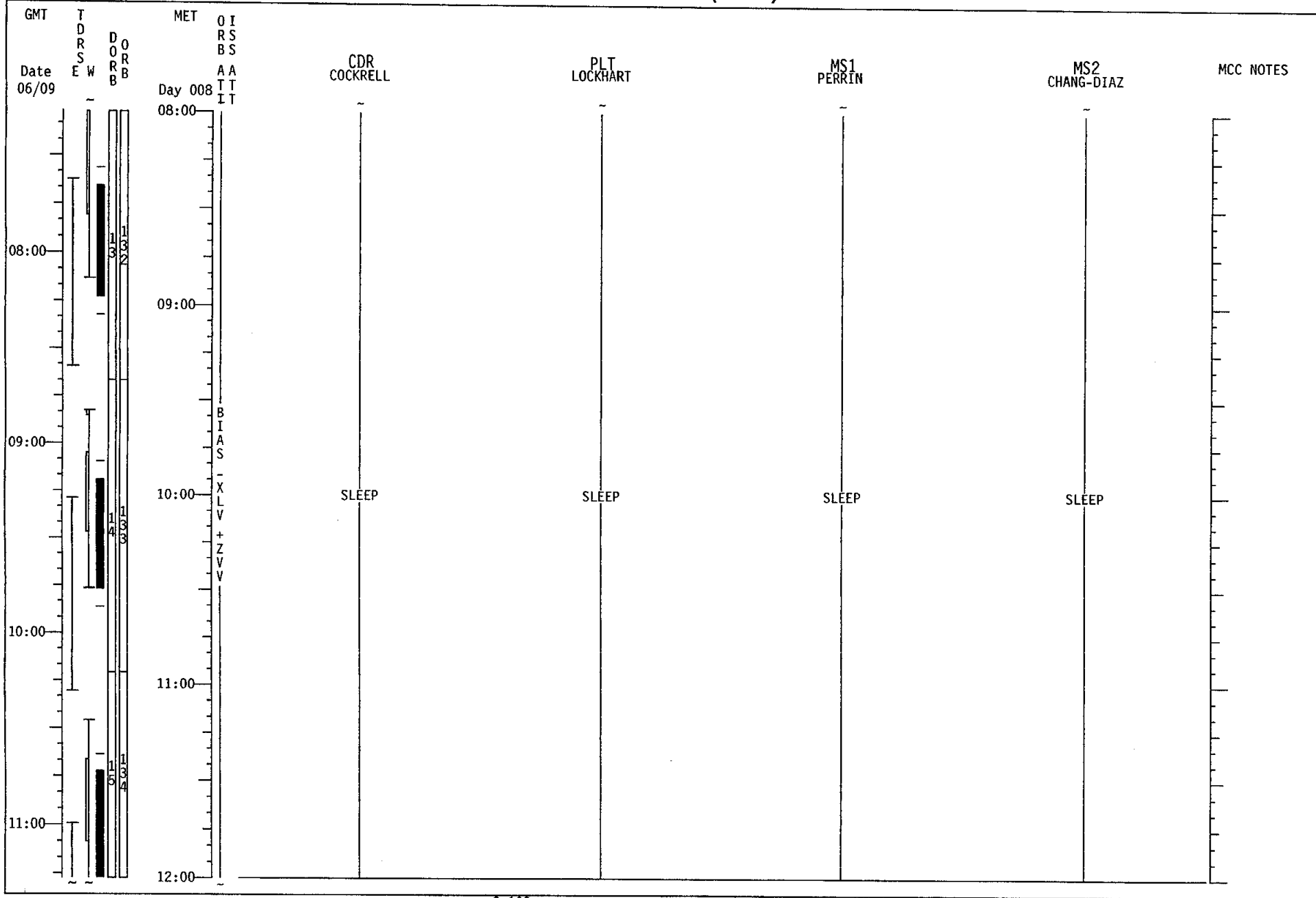
# STS-111 UF-2 (FD09)

GMT	TDRSEW	DORRB	MET	OIRSBS	MS3 WALZ	MS4 BURSCH	MS5 ONUFRIENKO	MCC NOTES
Date 06/09			Day 008	AA TT IT				
04:00								
04:00								
05:00								
05:00								
06:00					SLEEP	SLEEP	SLEEP	
06:00								
07:00								
07:00								
08:00								

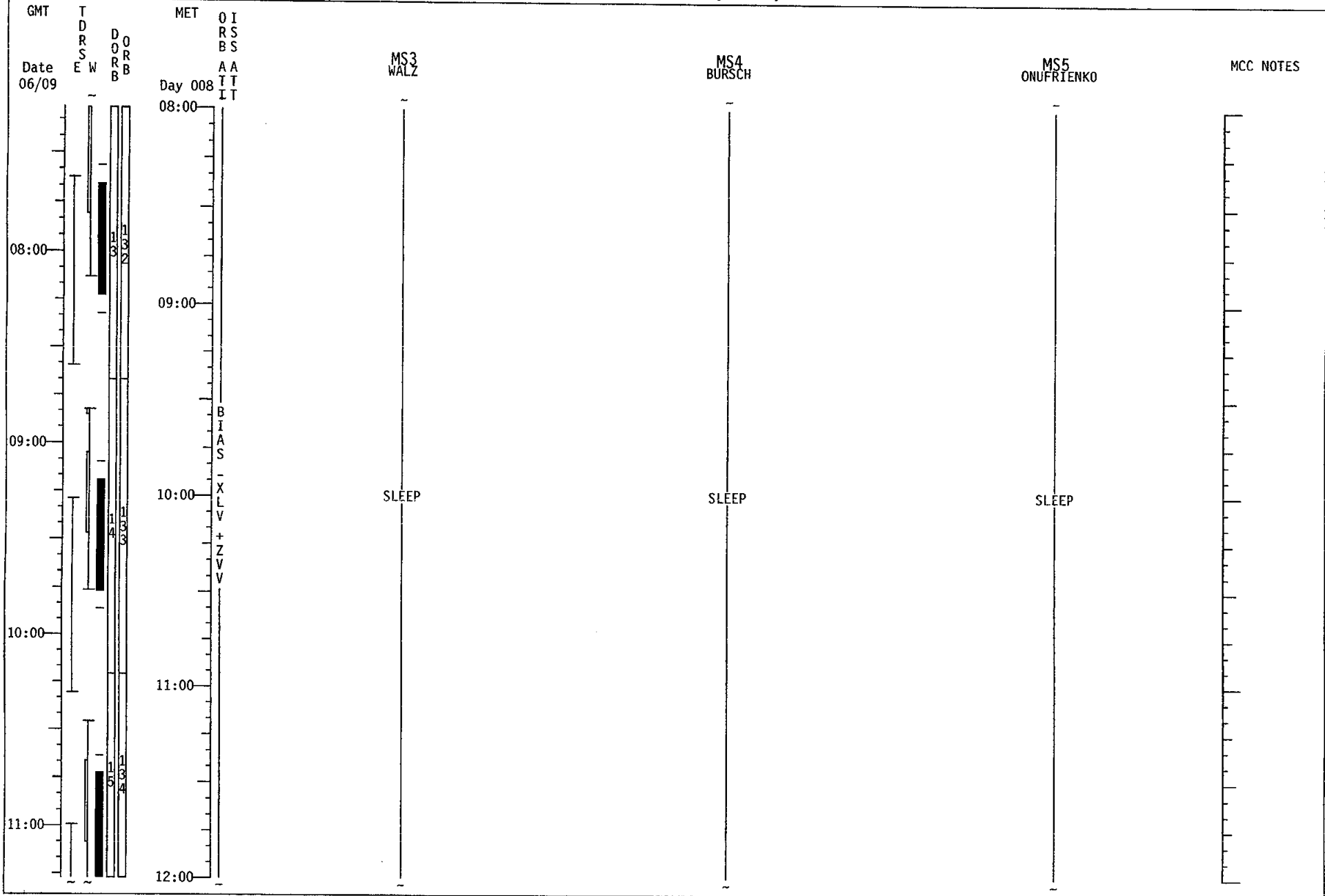
BIAS  
XLV  
+ZVV



# STS-111 UF-2 (FD09)



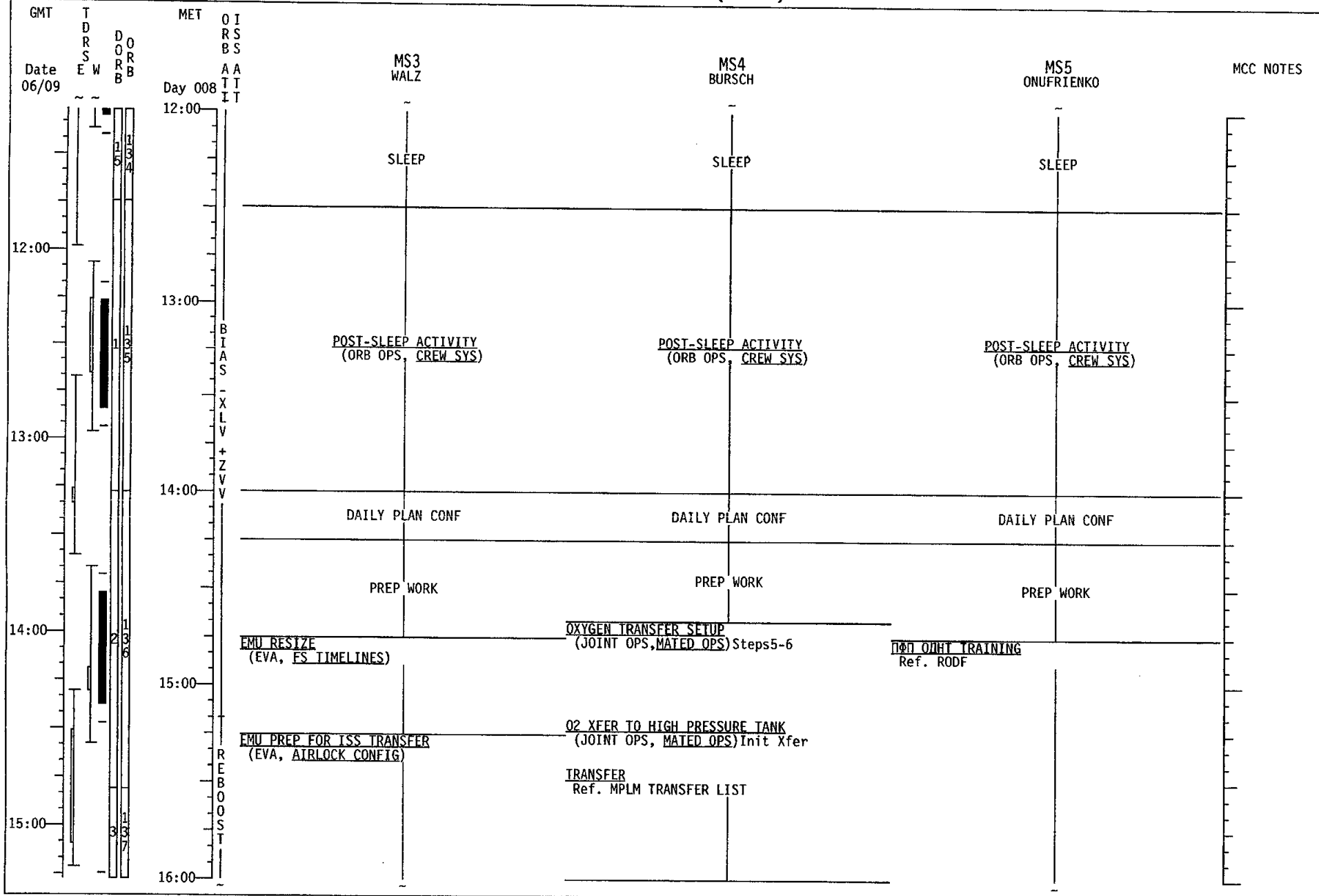
# STS-111 UF-2 (FD09)



# STS-111 UF-2 (FD10)

GMT Date 06/09	TDRS EW	DORRB 1 3 4 1 3 5 1 3 6 1 3 7	MET Day 008	OIRSBS AAITTT	CDR COCKRELL	PLT LOCKHART	MS1 PERRIN	MS2 CHANG-DIAZ	MCC NOTES
			12:00		SLEEP LOG(ORB OPS, DS0634)			SLEEP LOG(ORB OPS, DS0634)	
			12:00			<b>FD10 EZ ACTIVITIES</b> <u>QCAC FILTER INSPECT</u> <u>TEPC (STATUS CHECK)</u> (ORB OPS, CREW SYSTEMS) <u>REBOOT PGSCs</u> <b>DT0694 - BWTs</b> <u>BWTs SETUP</u> <u>BWTs SAMPLE COLLECTION</u> <u>BWTs TEARDOWN</u> (ORB OPS, DT0694)			
			13:00	BIAS	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	POST SLEEP ACTIVITY (ORB OPS, CREW SYS)	
			13:00	-XLV				GALLEY MORNING CONFIG (ORB OPS, ECLS)	
			14:00	+ZVV					
			14:00		Update Master Transfer List and Post Pages			EVCREW: TAKE 1 ASPIRIN(325mg) OXYGEN TRANSFER SETUP (JOINT OPS, MATED OPS) Steps 5-6	
			15:00		H/O ATT CONTROL CMG TA to ORB (JOINT OPS, MATED OPS)	MDDK DESCENT STATUS CK (ASSY OPS, CUE CARD)	EVCREW: TAKE 1 ASPIRIN(325mg) TRANSFER Ref. MPLM TRANSFER LIST		
			15:00	REBOOST	MNVR (TRK)BIAS -XLV -ZVV TG=2 BV=5 P=175 Y=0 OM=180 A/AUTO/VERN Init TRK (15:10)	MNVR (TRK)BIAS -XLV -ZVV TG=2 BV=5 P=175 Y=0 OM=180 A/AUTO/VERN Init TRK (15:10)		O2 XFER TO HIGH PRESSURE TANK (JOINT OPS, MATED OPS) Init Xfer	
			15:00		AUTO REBOOST (ORB OPS, REBOOST/DAP) CONFIG 3	AUTO REBOOST (ORB OPS, REBOOST/DAP) CONFIG 3		TRANSFER Ref. MPLM TRANSFER LIST	
			16:00				DAILY STS/ISS CREW TRANSFER TAGUP	P/TV21 ISS INTERNAL OPS (S/U) (PHOTO/TV, SCENES)	

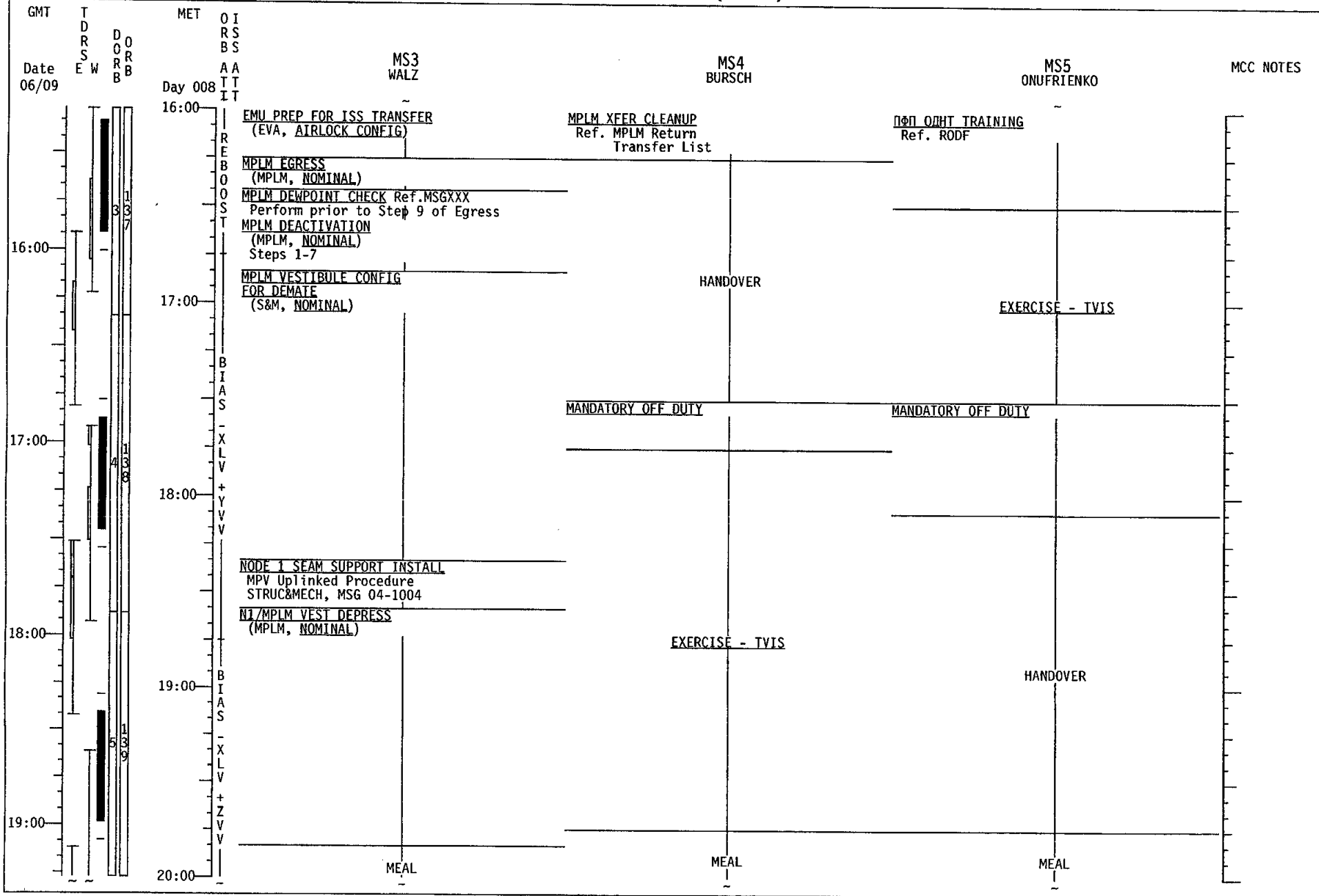
# STS-111 UF-2 (FD10)



# STS-111 UF-2 (FD10)

GMT Date 06/09	TDRS EW	DORB ORRB	MET Day 008 TT	OIRS BS AA TT	CDR COCKRELL	PLT LOCKHART	MS1 PERRIN	MS2 CHANG-DIAZ	MCC NOTES
			16:00	REBOOST	<u>AUTO REBOOST</u> (ORB OPS, REBOOST/DAP) CONFIG 3	<u>AUTO REBOOST</u> (ORB OPS, REBOOST/DAP) CONFIG 3	<u>DAILY TRANSFER BRIEFING</u>	<u>P/TV21 ISS INTERNAL OPS (S/U)</u> (PHOTO/TV, SCENES)	
			16:00					<u>P/TV21 ISS INTERNAL OPS (OPS)</u> (PHOTO/TV, SCENES)	
			16:00		<u>MNVR (TRK) BIAS -XLV, +YVV</u> TG=2 BV=5 P=157 Y=0 OM=270 A12/AUTO/VERN Init TRK (16:45)	<u>MNVR (TRK) BIAS -XLV, +YVV</u> TG=2 BV=5 P=157 Y=0 OM=270 A12/AUTO/VERN Init TRK (16:45)	<u>EXERCISE</u>		
			17:00	BIAS	<u>SUPPLY/WASTE WATER DUMP</u> (ORB OPS, ECLS) Initiate Supply Dump	<u>SUPPLY/WASTE WATER DUMP</u> (ORB OPS, ECLS) Initiate Supply Dump	<u>ABL PORT RMS HTR (two) - AUTO</u> L17 Check MCIU filter screen	<u>EXERCISE</u>	
			17:00	XLV		<u>PWR OVERBOARD DUMP</u> (ORB OPS, ECLS) Dump 2 PWR Bags, SNs 1010 & 1012	<u>TRANSFER</u> Ref. MDDK TRANSFER LIST		
			18:00	+YVV	<u>EXERCISE</u>			<u>P/TV24 ISS EXTERNAL SURVEY (S/U)</u> (PHOTO/TV, SCENES)	
			18:00		<u>SUPPLY/WASTE WATER DUMP</u> (ORB OPS, ECLS) Terminate Supply Dump	<u>SUPPLY/WASTE WATER DUMP</u> (ORB OPS, ECLS) Terminate Supply Dump	<u>P/TV21 ISS INTERNAL OPS (OPS)</u> (PHOTO/TV, SCENES)		
			18:00		<u>MNVR (TRK) BIAS -XLV, +ZVV</u> TG=2 BV=5 P=157 Y=0 OM=0 A/AUTO/VERN Init TRK (18:45)	<u>MNVR (TRK) BIAS -XLV, +ZVV</u> TG=2 BV=5 P=157 Y=0 OM=0 A/AUTO/VERN Init TRK (18:45)	<u>TRANSFER</u> Ref. MDDK TRANSFER LIST	<u>P/TV24 ISS EXTERNAL SURVEY (OPS)</u> (PHOTO/TV, SCENES)	
			19:00	BIAS	<u>H/O ATT CONTROL ORB to CMG IA</u> (JOINT OPS, MATED OPS)		<u>RMS PWRUP</u> (PDRS, RMS PWRUP)	<u>TRANSFER</u> Ref. MDDK TRANSFER LIST	
			19:00	XLV	<u>IMU SOPA (ORB OPS, GNC)</u>	<u>IMU SOPA (ORB OPS, GNC)</u>	<u>P/TV22 MPLM ASSEMBLY OPS (S/U)</u> (PHOTO/TV, SCENES)		
			19:00	+ZVV	<u>MPLM GRAPPLE ON NODE1 NADIR</u> (PDRS, NOM MPLM BERTH OPS)	<u>MPLM GRAPPLE ON NODE1 NADIR</u> (PDRS, NOM MPLM BERTH OPS)			
			20:00		<u>MEAL</u>	<u>MEAL</u>	<u>MEAL</u>	<u>MEAL</u>	

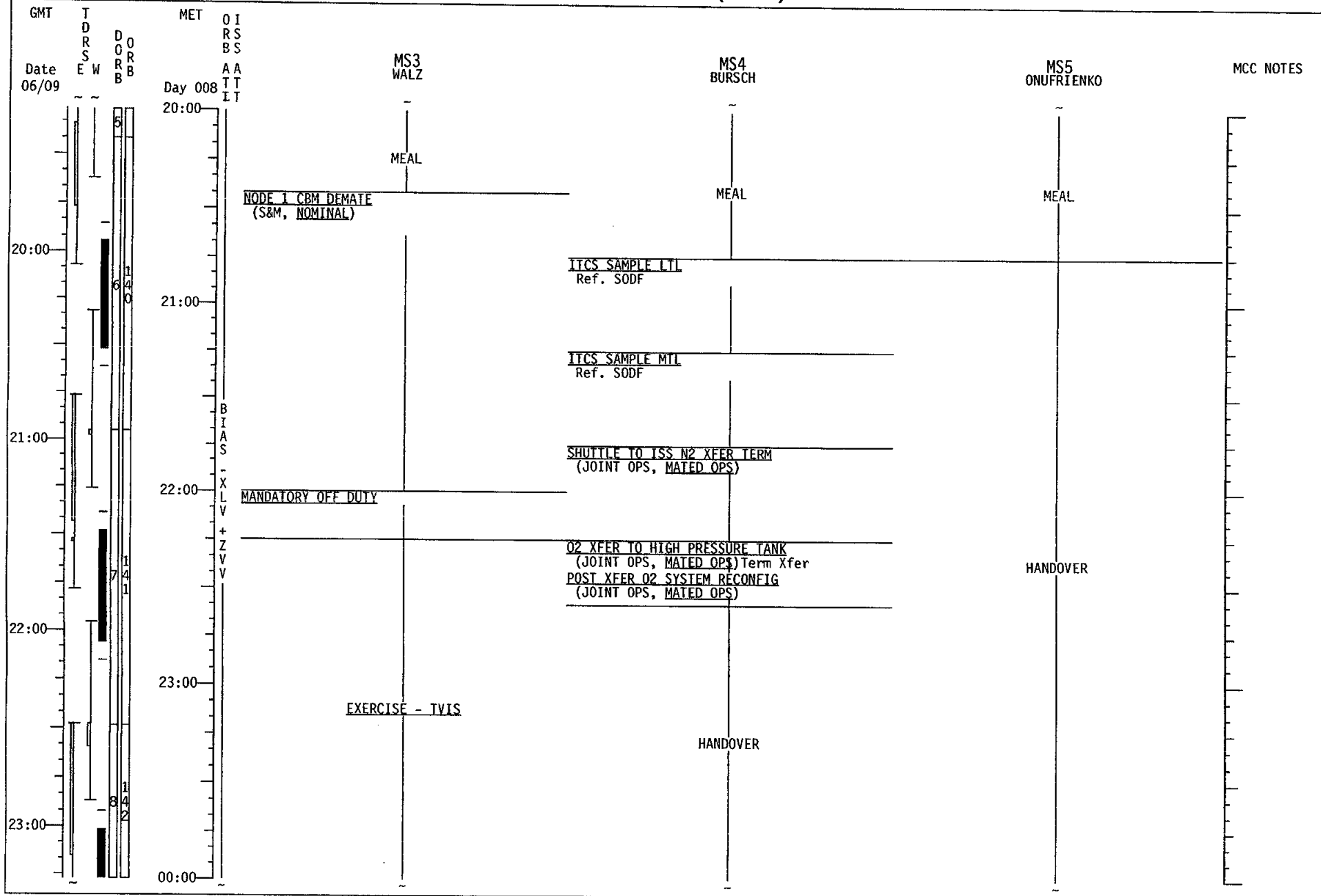
# STS-111 UF-2 (FD10)



# STS-111 UF-2 (FD10)

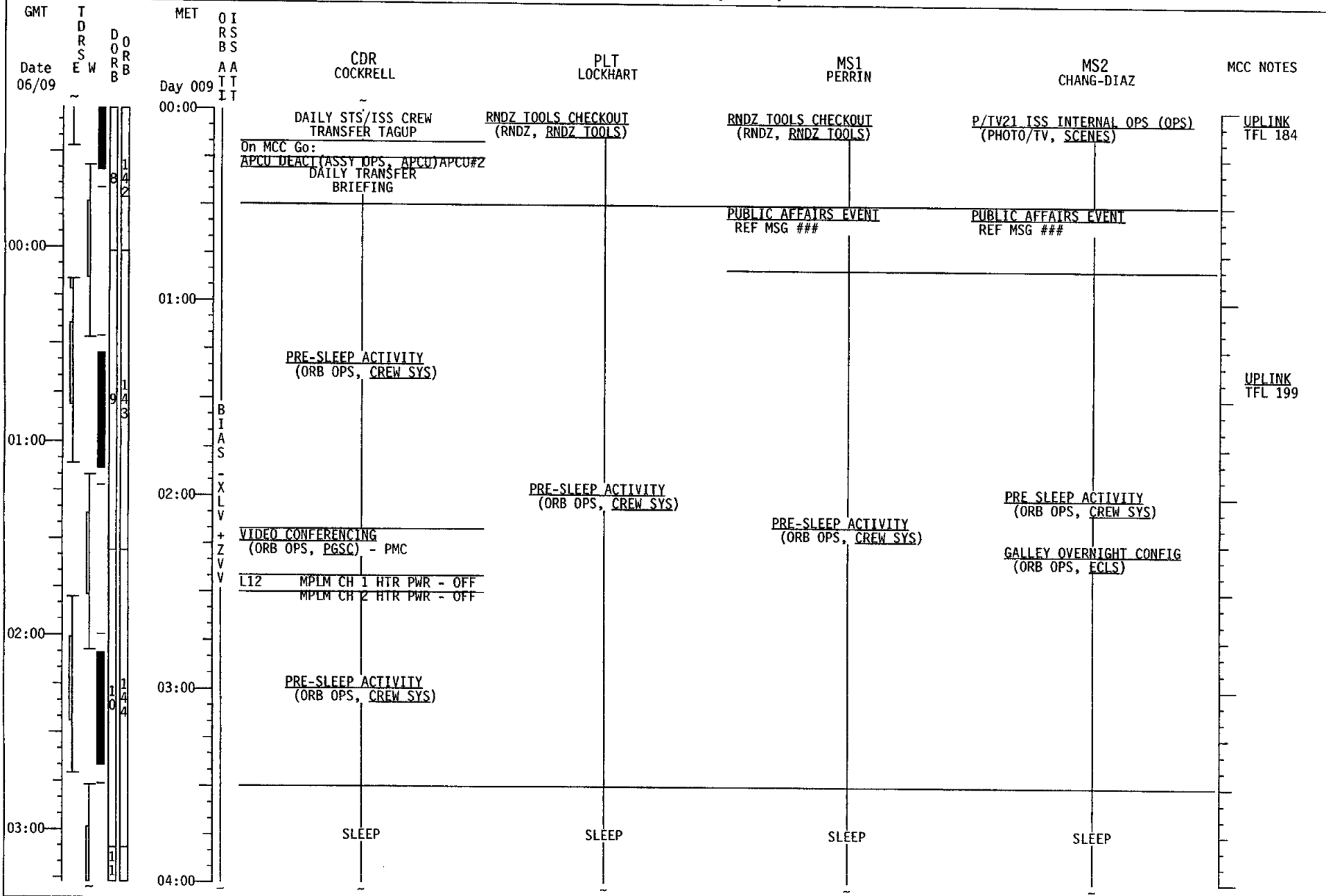
GMT	TDRS E W	DORB 5 6 7 8	MET Day 008	OIRSBS AA TT IT	CDR COCKRELL	PLT LOCKHART	MS1 PERRIN	MS2 CHANG-DIAZ	MCC NOTES
20:00					MEAL	MEAL	MEAL	MEAL	
20:00						PWR FILL (ORB OPS, ECLS) Init Fill #4 Fill SN 1010 Fill Duration ~ 30 min Report SN to MCC	EVA TOOL TRANSFER AND STOW (EVA, AIRLOCK CONFIG)	EVA TOOL TRANSFER AND STOW (EVA, AIRLOCK CONFIG)	UPLINK TFL 188
21:00					MAGR ONORBIT SETUP (ORB OPS, GPS) Steps 4-7	PWR FILL (ORB OPS, ECLS) Init Fill #5 Fill SN 1012 Fill Duration ~ 30 min Report SN to MCC			
21:00					P/TV21 ISS INTERNAL OPS (S/U) (PHOTO/TV, SCENES)			SHUTTLE TO ISS N2 XFER TERM (JOINT OPS, MATED OPS)	
22:00					MPLM UNINSTALL (PDRS, NOM MPLM BERTH OPS)	PWR TRANSFER (1 BAG) Transfer 1 PWR bag to ISS	MPLM UNINSTALL (PDRS, NOM MPLM BERTH OPS)		
22:00					ON MCC GO: MPLM BERTH (PDRS, NOM MPLM BERTH OPS)		ON MCC GO: MPLM BERTH (PDRS, NOM MPLM BERTH OPS)	O2 XFER TO HIGH PRESSURE TANK (JOINT OPS, MATED OPS) Term Xfer POST XFER O2 SYSTEM RECONFIG (JOINT OPS, MATED OPS)	
22:00						EXERCISE		TRANSFER Ref. MDDK TRANSFER LIST	
23:00					MPLM ROEU MATE (PDRS, NOM MPLM BERTH OPS) √ROEU MATE COMPLETE L12 MPLM CH 1 HTR PWR - ON MPLM CH 2 HTR PWR - ON		MPLM ROEU MATE (PDRS, NOM MPLM BERTH OPS)		
23:00					MPLM UNGRAPPLE IN BAY (PDRS, NOM MPLM BERTH OPS)		MPLM UNGRAPPLE IN BAY (PDRS, NOM MPLM BERTH OPS)		
23:00					APCU ACT (ASSY OPS, APCU) APCU#2 RMS PWRDN (PDRS, RMS PWRDN) Note: Do not stow MPM's	PWR TRANSFER (1 BAG) Transfer 1 PWR bag to ISS	RNDZ PGSC SETUP (REF DATA, UTIL PWR) Use PGSC Usage Chart & Plug-in-plan	RNDZ PGSC SETUP (REF DATA, UTIL PWR) Use PGSC Usage Chart & Plug-in-plan	MPLM ENVIRON CHECK
00:00					DAILY STS/ISS CREW TRANSFER TAGUP	MDDK DESCENT STATUS CK (ASSY OPS, CUE CARD) Step 2			

# STS-111 UF-2 (FD10)

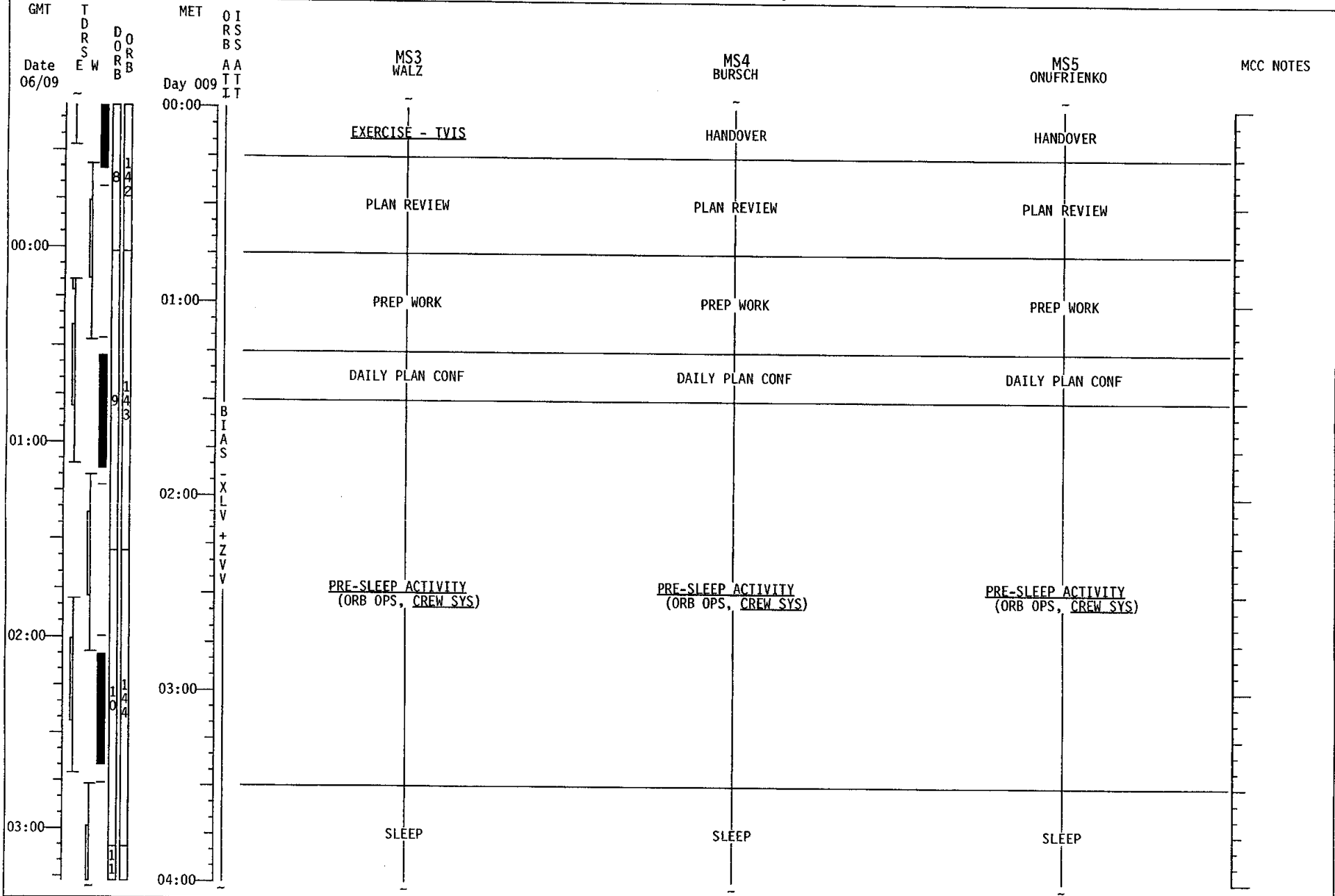




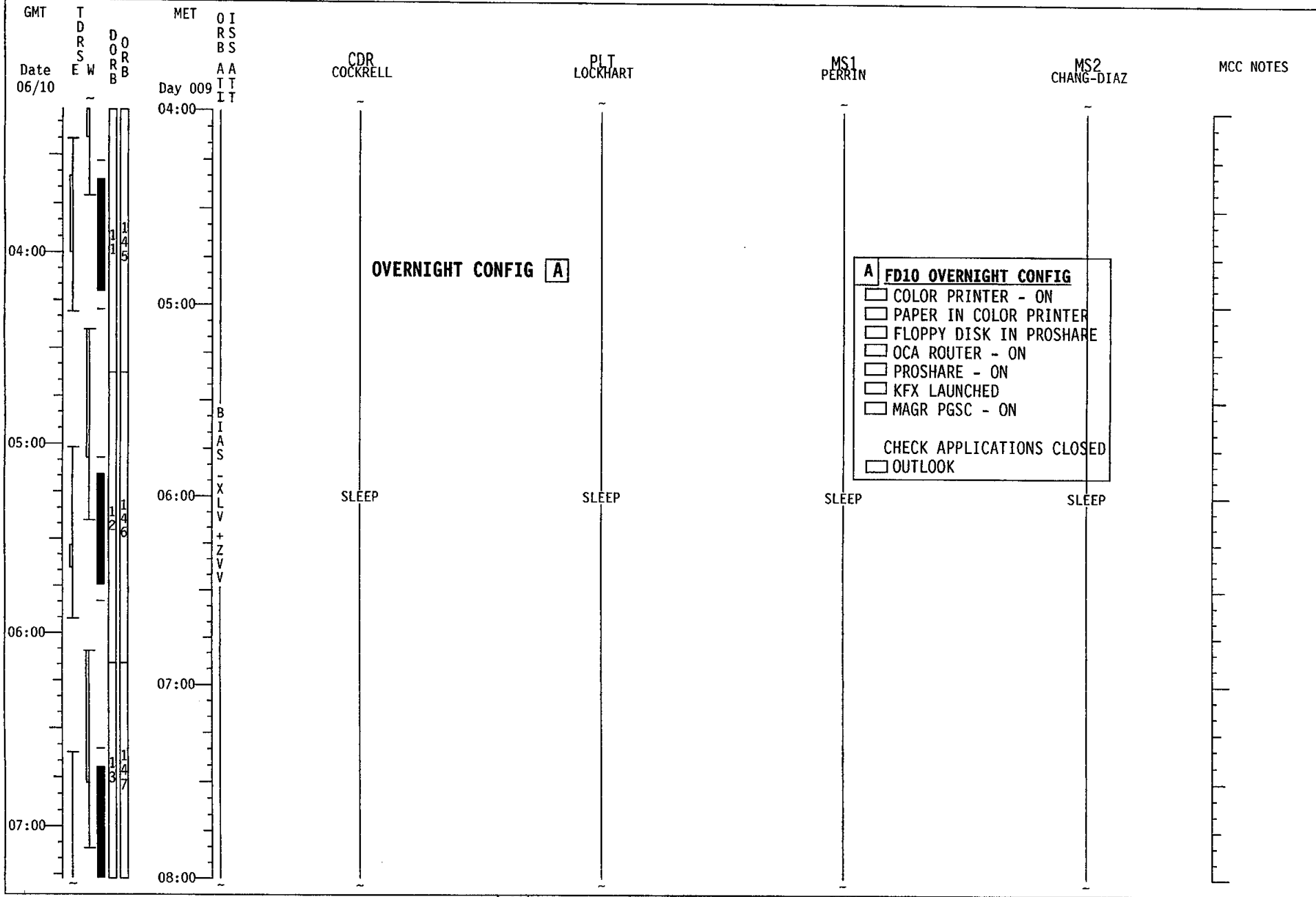
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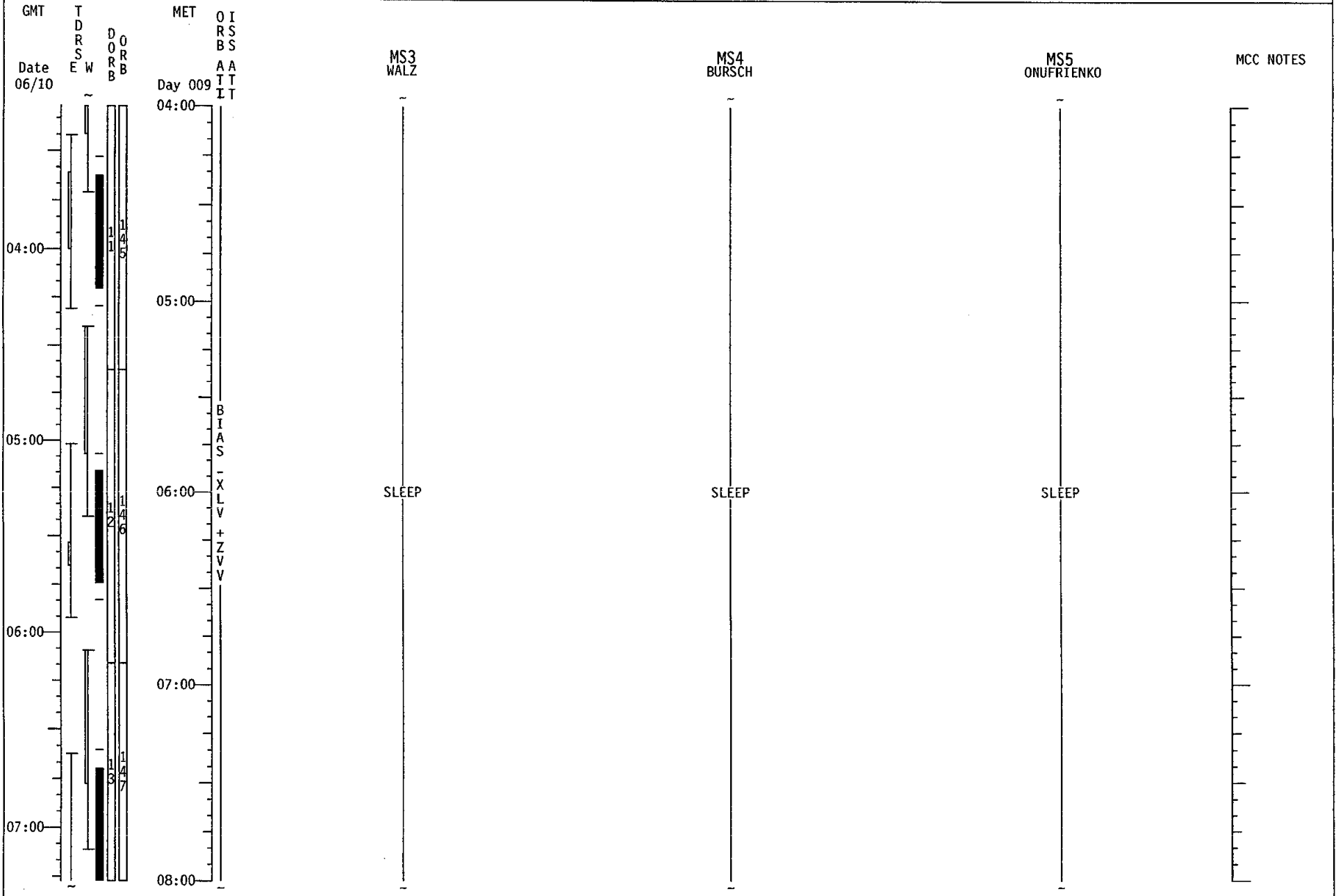
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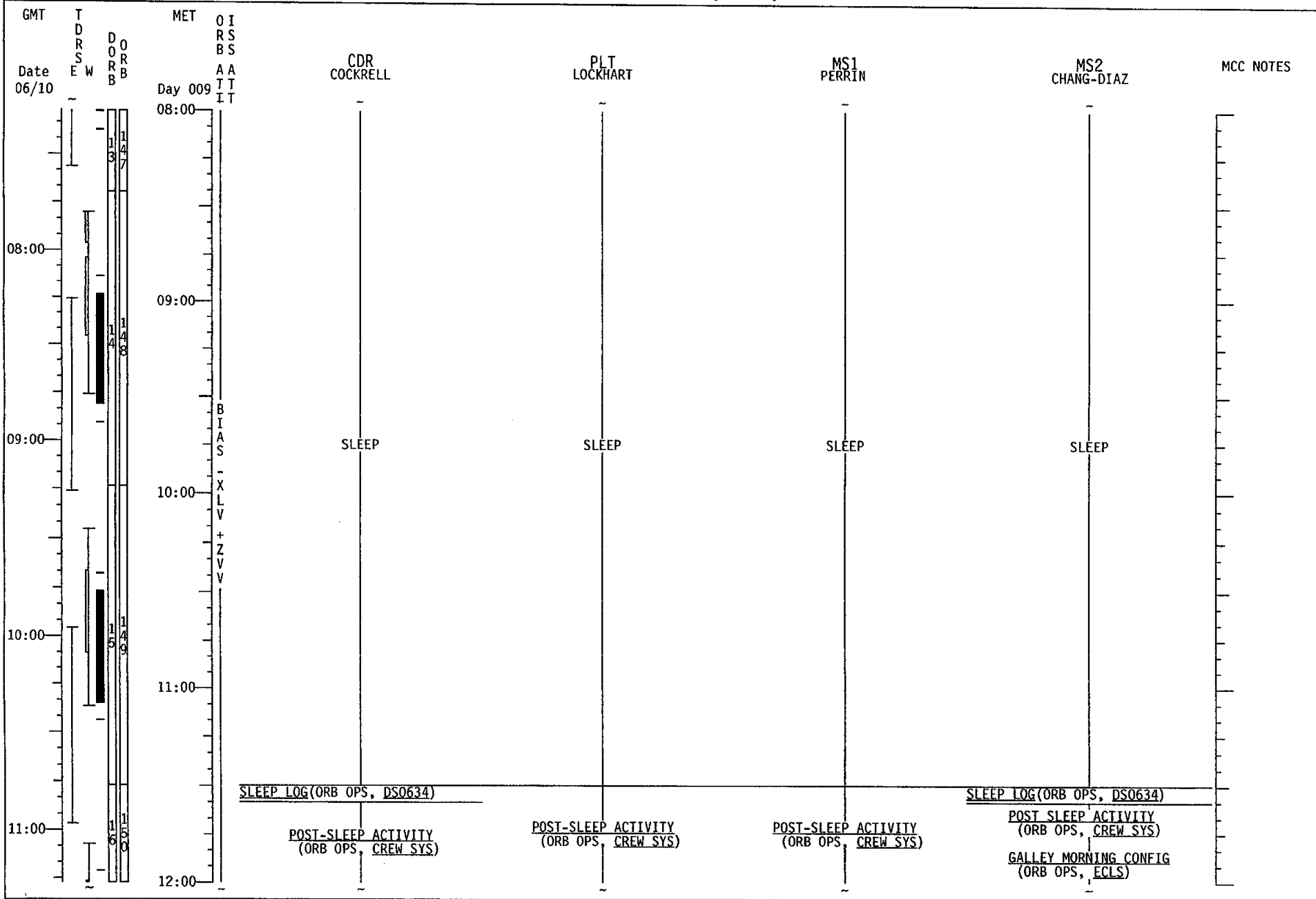
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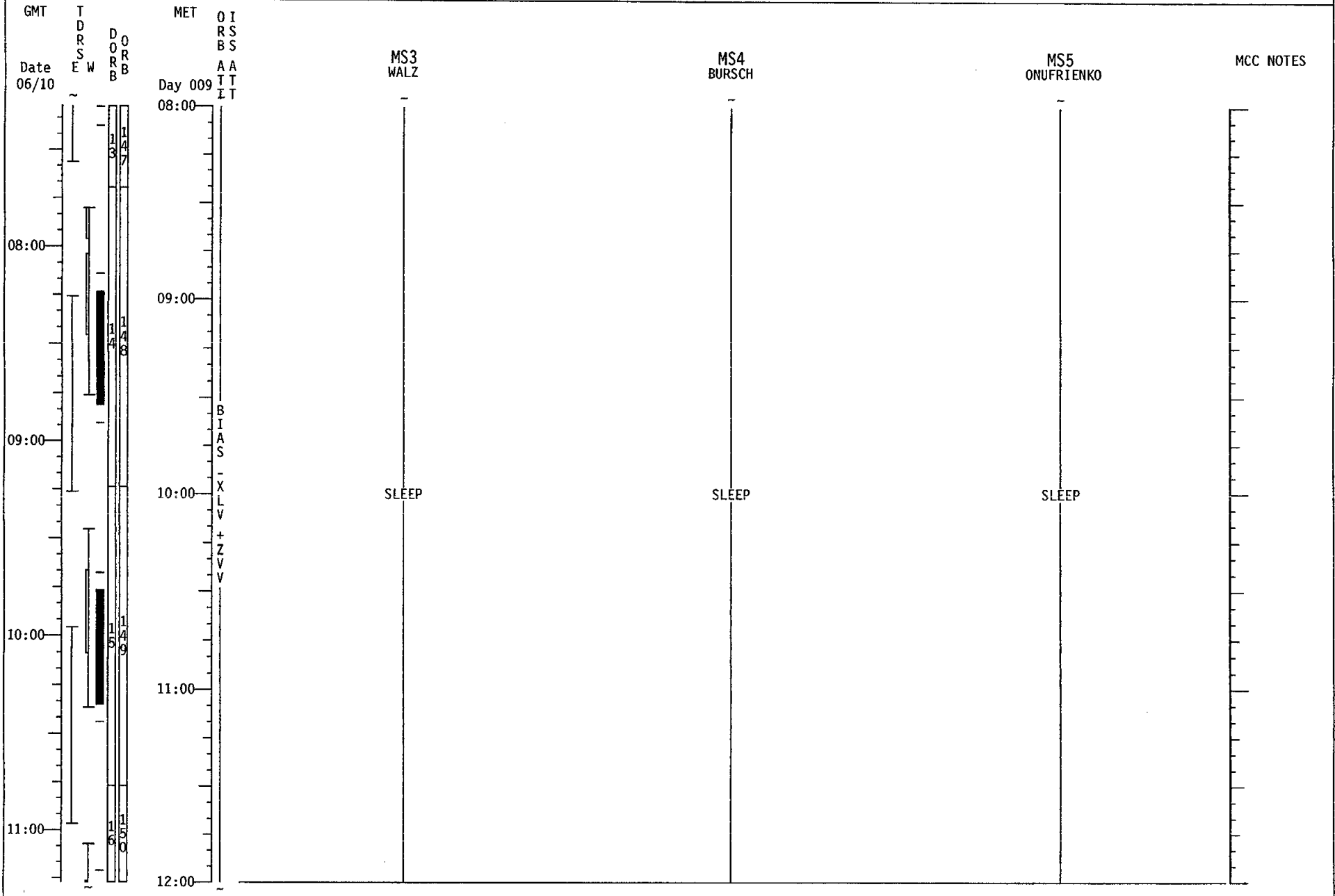
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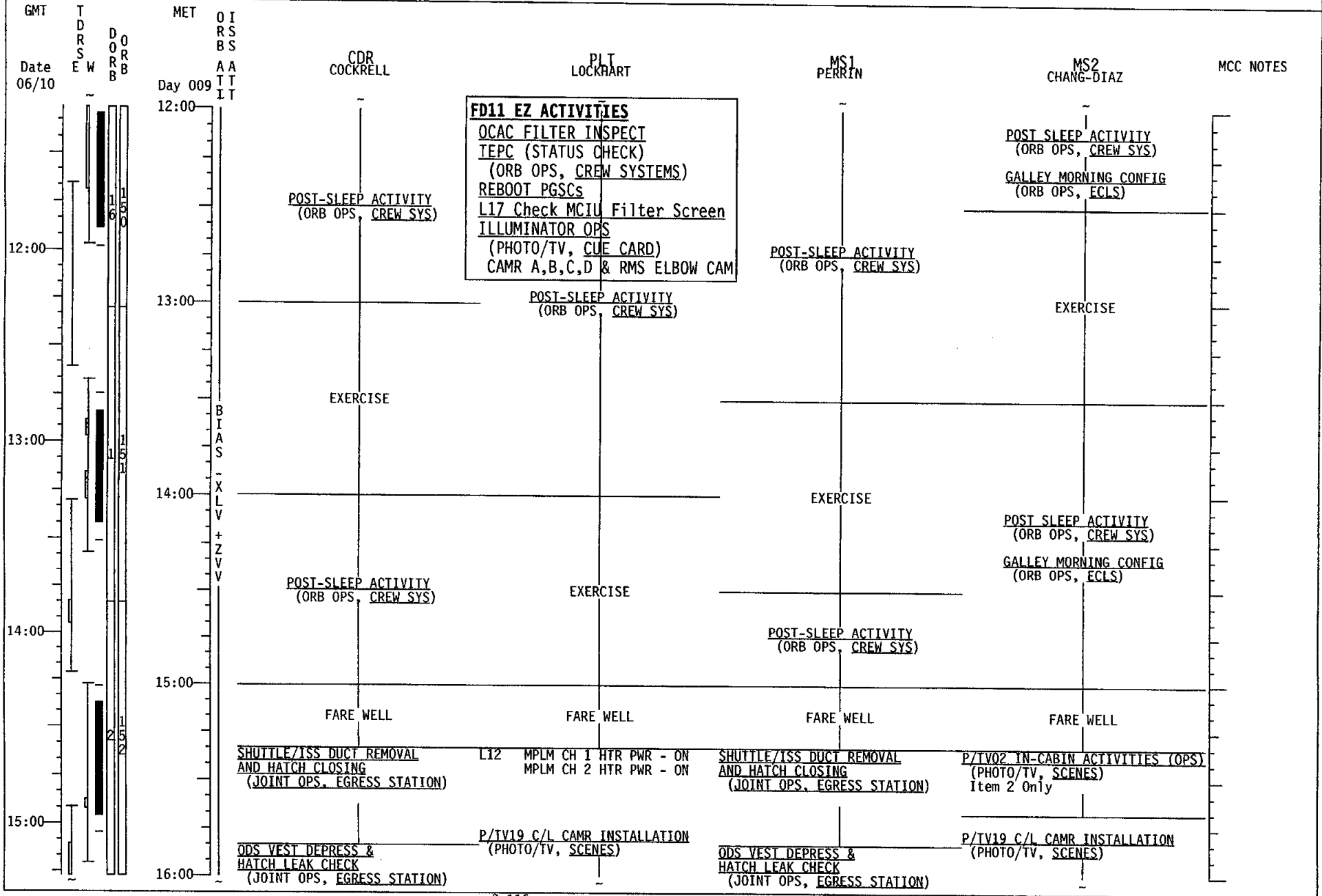
# STS-111 UF-2 (FD10)



# STS-111 UF-2 (FD10)



# STS-111 UF-2 (FD11)



# STS-111 UF-2 (FD11)

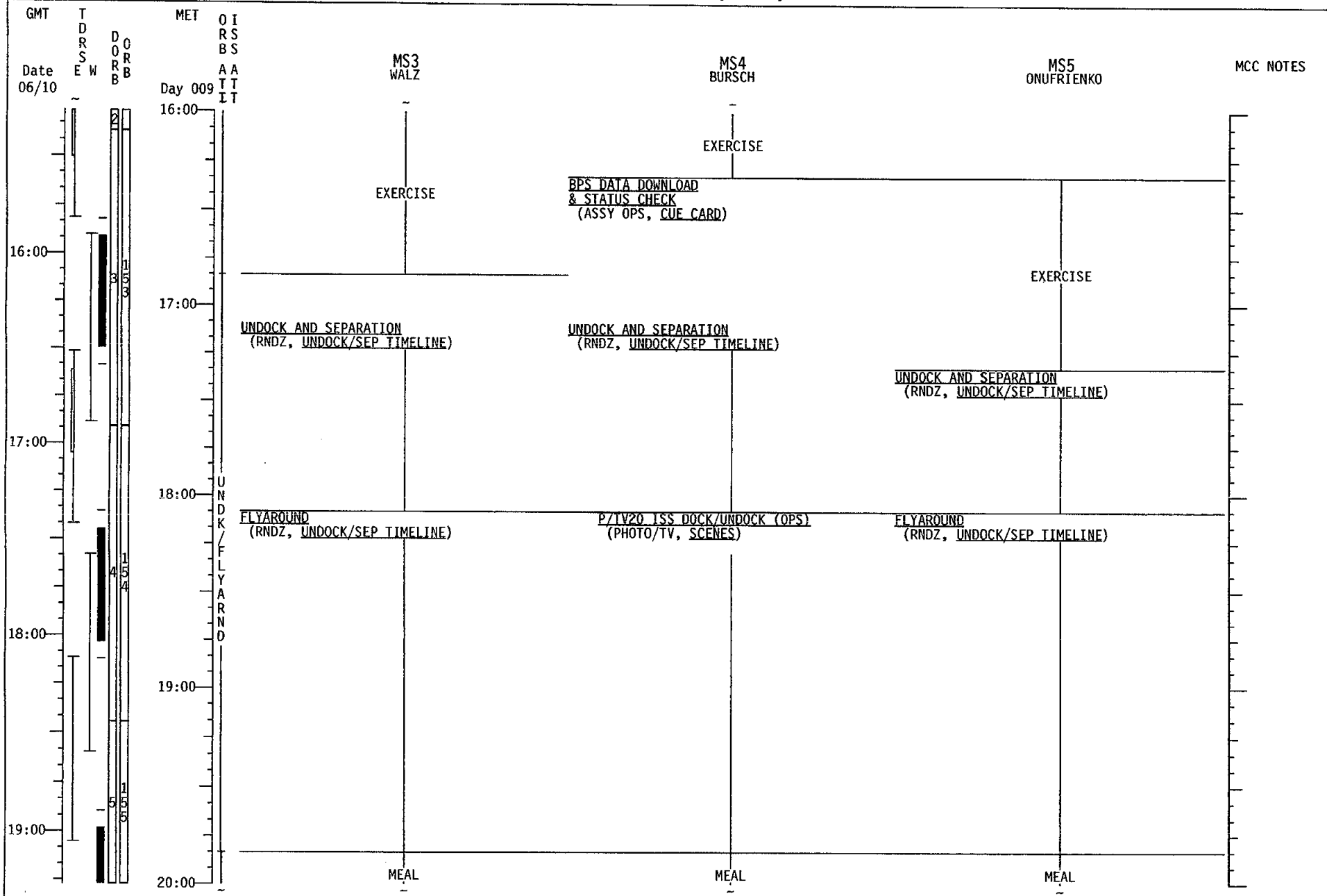
GMT	TDRS E W	DORR B	MET	OI RS BS	MS3 WALZ	MS4 BURSCH	MS5 ONUFRIENKO	MCC NOTES
Date 06/10			Day 009	AA TT IT				
12:00								
12:00					POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)	POST-SLEEP ACTIVITY (ORB OPS, CREW SYS)		
13:00								
13:00					DAILY PLAN CONF	DAILY PLAN CONF		
					EMU TRANSFER (TRANSFER LIST BOOK, XFER LIST) Items xxx-xxx	EMU TRANSFER (TRANSFER LIST BOOK, XFER LIST) Items xxx-xxx		
14:00								
14:00								
15:00								
15:00					FARE WELL	FARE WELL	FARE WELL	
					MDDK DESCENT STATUS CK (ASSY OPS, CUE CARD)			
15:00						EXERCISE		
16:00					EXERCISE			



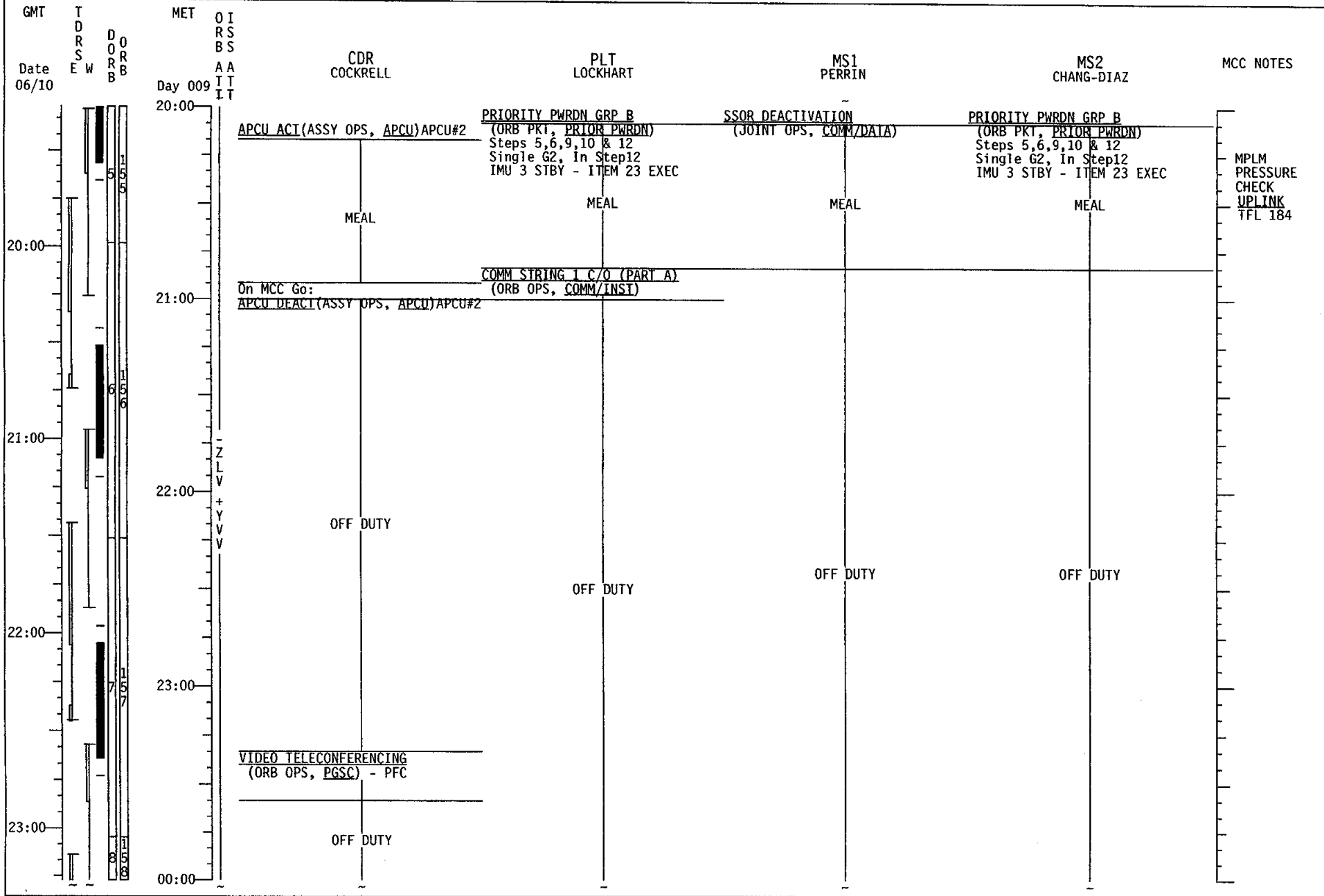
# STS-111 UF-2 (FD11)

GMT Date 06/10	TDRS EW	DORB	MET Day 009	OIRSBS AA TT IT	CDR COCKRELL	PLT LOCKHART	MS1 PERRIN	MS2 CHANG-DIAZ	MCC NOTES
			16:00		<u>ODS VEST DEPRESS &amp; HATCH LEAK CHECK</u> (JOINT OPS, EGRESS STATION)	<u>P/TV19 C/L CAMR INSTALLATION</u> (PHOTO/TV, SCENES) <u>HARDLINE AUD CONFIG (ISS)B/O</u> (JOINT OPS, COMM/DATA) Steps 1,3,4	<u>ODS VEST DEPRESS &amp; HATCH LEAK CHECK</u> (JOINT OPS, EGRESS STATION)	<u>P/TV19 C/L CAMR INSTALLATION</u> (PHOTO/TV, SCENES) <u>P/TV20 ISS DOCK/UNDOCK (S/U)</u> (PHOTO/TV, SCENES)	
			16:00		<u>H/O ATT CONTROL CMG IA to ORB</u> (JOINT OPS, MATED OPS)	<u>PRIORITY PWRUP GRP B</u> (ORB PKT, PRIOR PWRDN) Steps 5,6,9,10,12 Triple G2 In Step12, Recover IMU 3	<u>RMS PWRDN</u> (PDRS, RMS PWRDN) Note: Stow MPMS, Steps3,5,6	<u>PRIORITY PWRUP GRP B</u> (ORB PKT, PRIOR PWRDN) Steps 5,6,9,10,12 Triple G2 In Step12, Recover IMU 3	
			17:00		<u>MNVR (TRK) UNDOCK ATT</u> TG=2 BV=5 P=180 Y=0 OM=0 A/AUTO/VERN Init TRK (16:50)	<u>SHUTTLE COND COLLECTION</u> (ORB OPS, ECLS) Perform TEARDOWN Steps 1-4 Temp stow full CWC for dump			
					<u>UNDOCK AND SEPARATION</u> (RNDZ, UNDOCK/SEP TIMELINE)	<u>UNDOCK AND SEPARATION</u> (RNDZ, UNDOCK/SEP TIMELINE)	<u>UNDOCK AND SEPARATION</u> (RNDZ, UNDOCK/SEP TIMELINE)	<u>UNDOCK AND SEPARATION</u> (RNDZ, UNDOCK/SEP TIMELINE)	
			18:00	UNDOCK / FLYAROUND	<u>FLYAROUND</u> (RNDZ, UNDOCK/SEP TIMELINE)	<u>FLYAROUND</u> (RNDZ, UNDOCK/SEP TIMELINE)	<u>FLYAROUND</u> (RNDZ, UNDOCK/SEP TIMELINE)	<u>FLYAROUND</u> (RNDZ, UNDOCK/SEP TIMELINE)	UPLINK β-80 deg only
			18:00						UPLINK TFL 192
			19:00		< SEP TIG 19:44	<u>PRIORITY PWRDN GRP B</u> (ORB PKT, PRIOR PWRDN) Steps 5,6,9,10 & 12 Single G2, In Step12 IMU 3 STBY - ITEM 23 EXEC	<u>SSOR DEACTIVATION</u> (JOINT OPS, COMM/DATA)	<u>PRIORITY PWRDN GRP B</u> (ORB PKT, PRIOR PWRDN) Steps 5,6,9,10 & 12 Single G2, In Step12 IMU 3 STBY - ITEM 23 EXEC	UPLINK β21 deg + Mask
			20:00		<u>MNVR (TRK) -ZLV, +YV</u> TG=2 BV=3 OM=270 A1/AUTO/VERN Init TRK (19:47)				

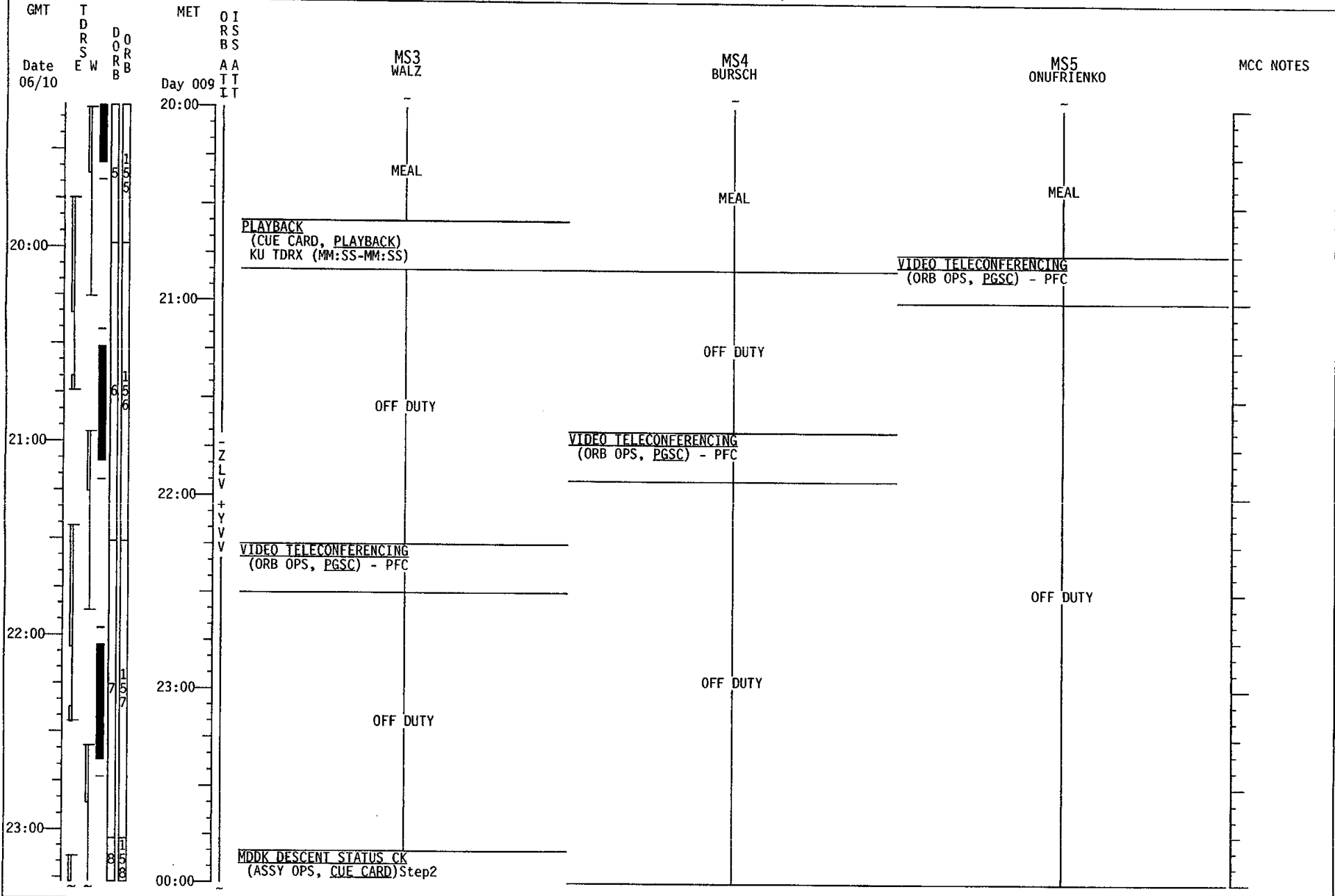
# STS-111 UF-2 (FD11)



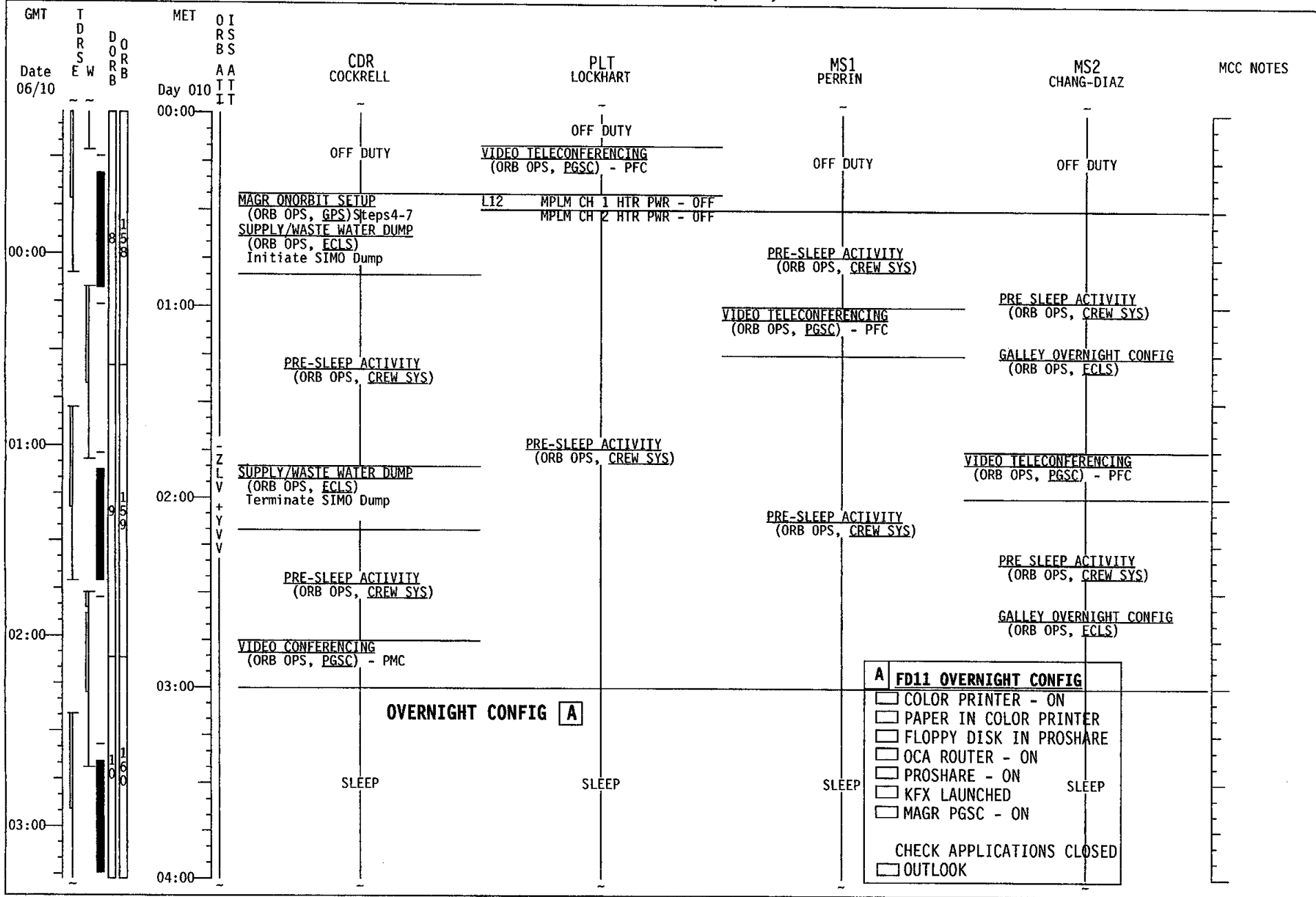
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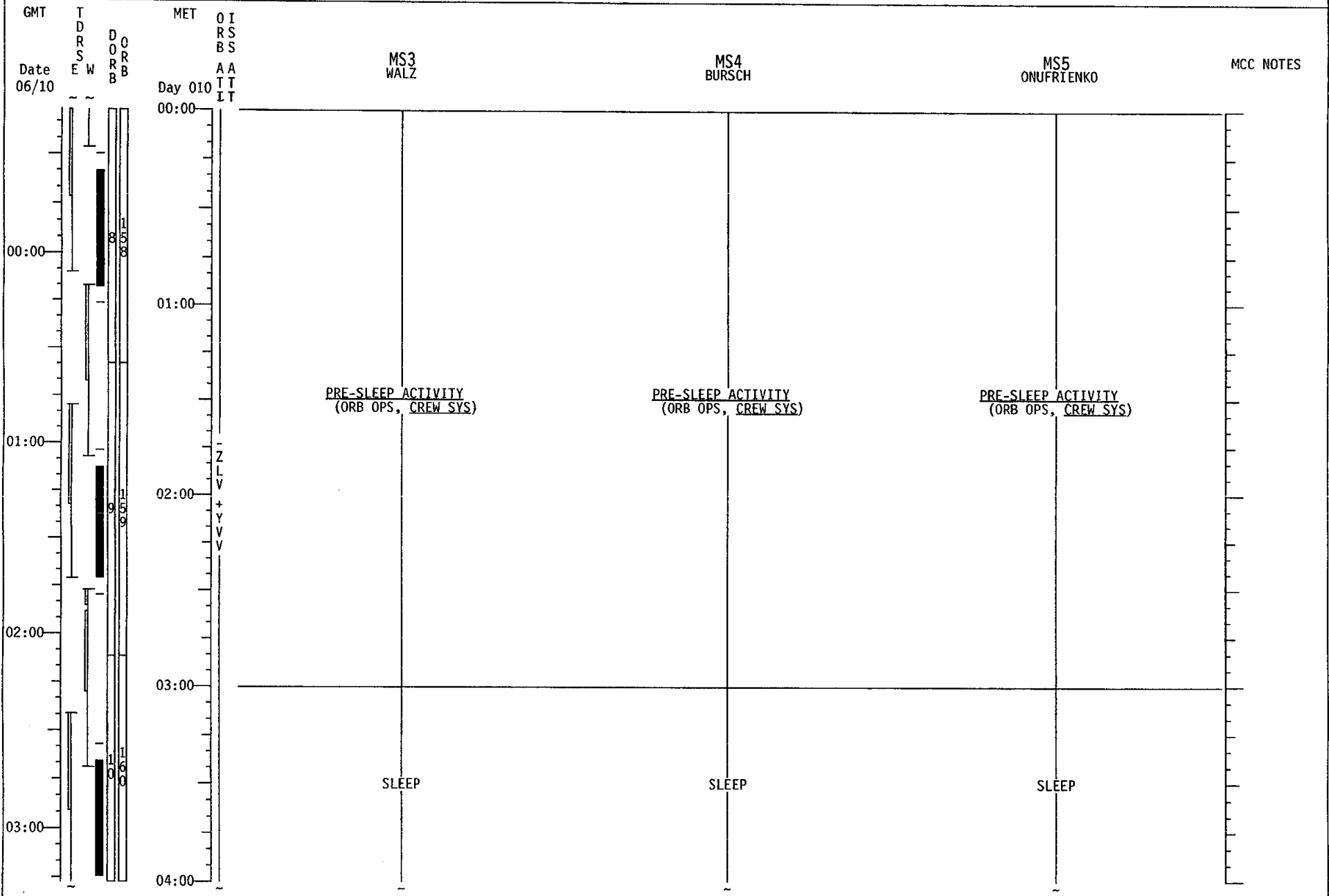
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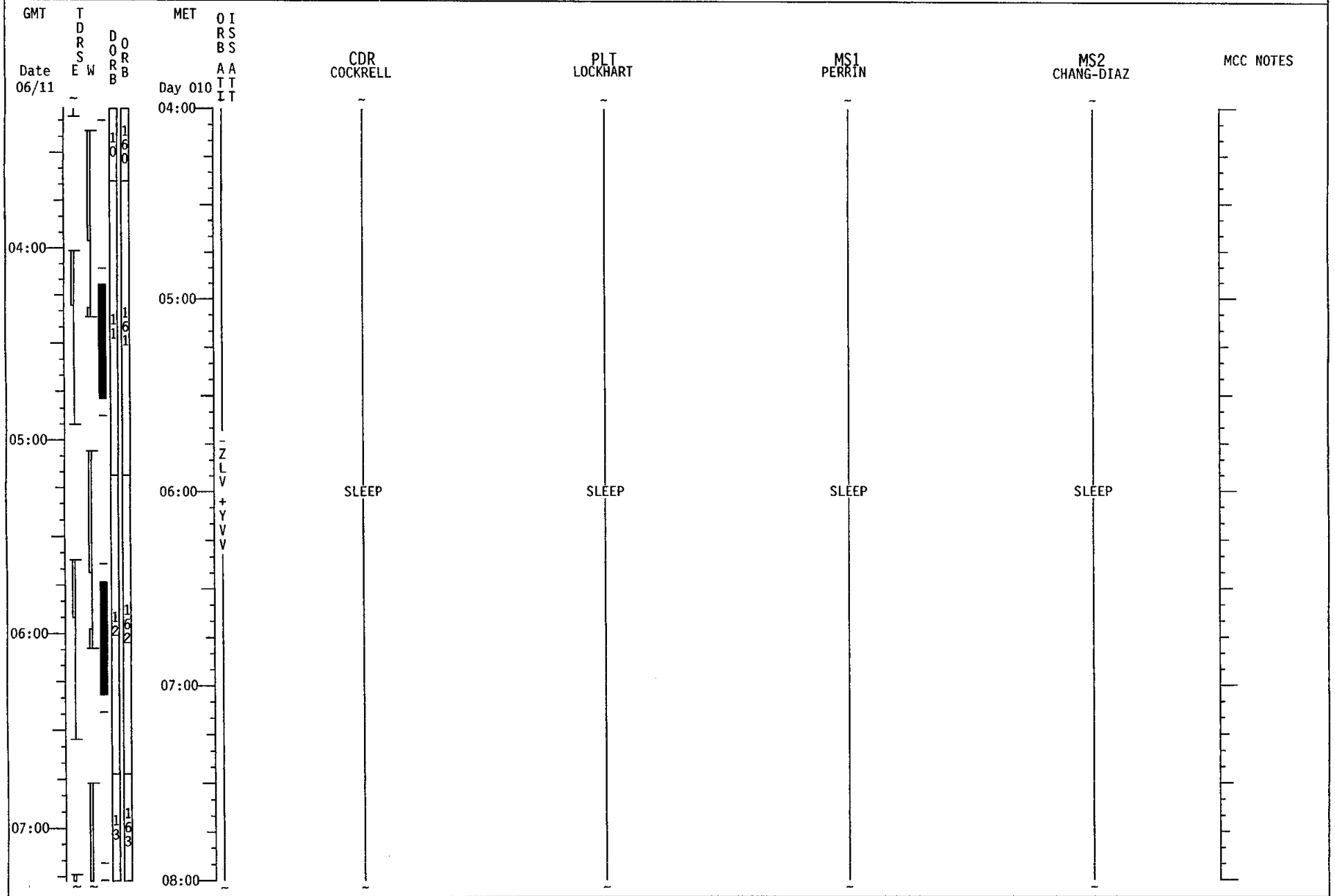
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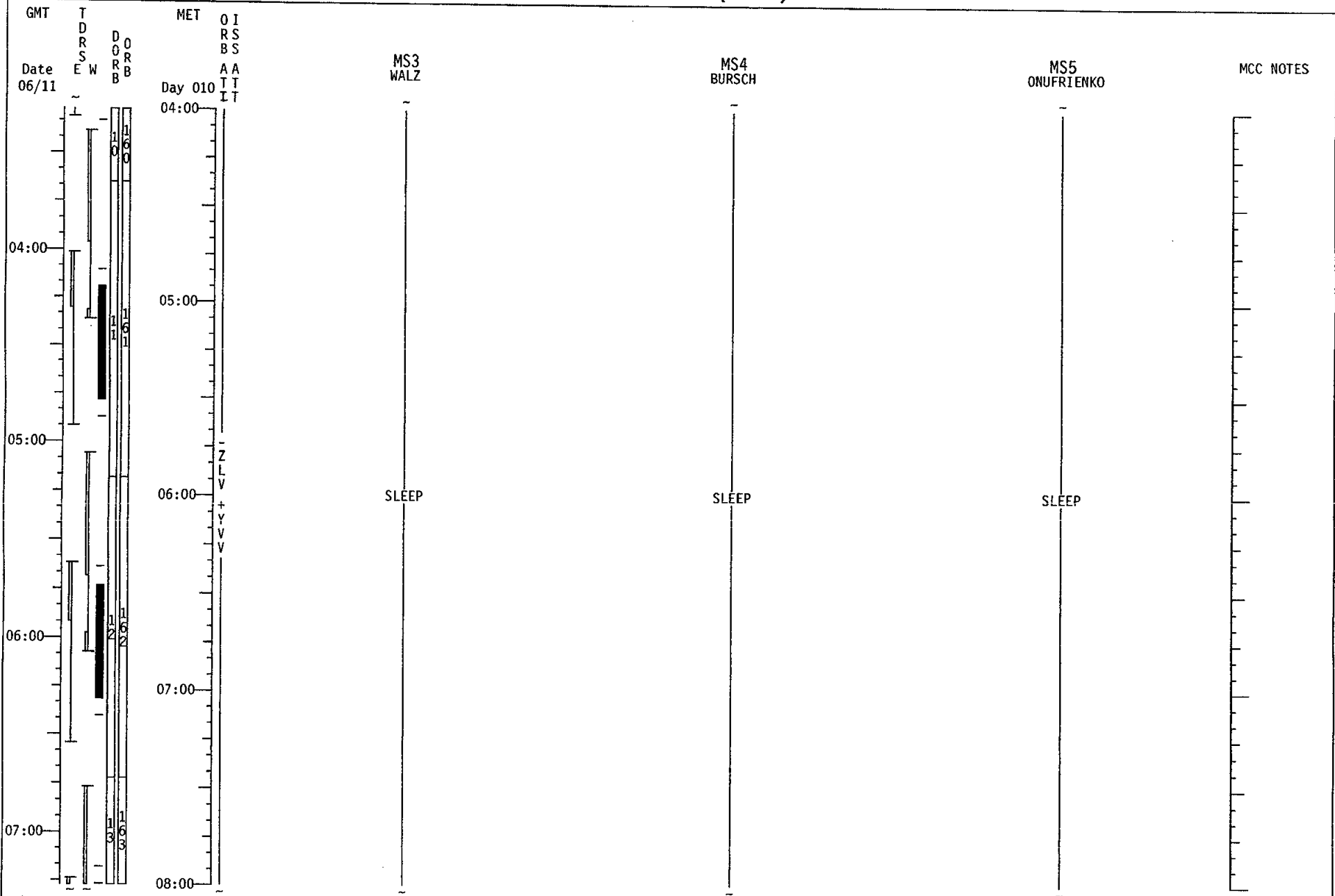
# STS-111 UF-2 (FD11)



# STS-111 UF-2 (FD11)

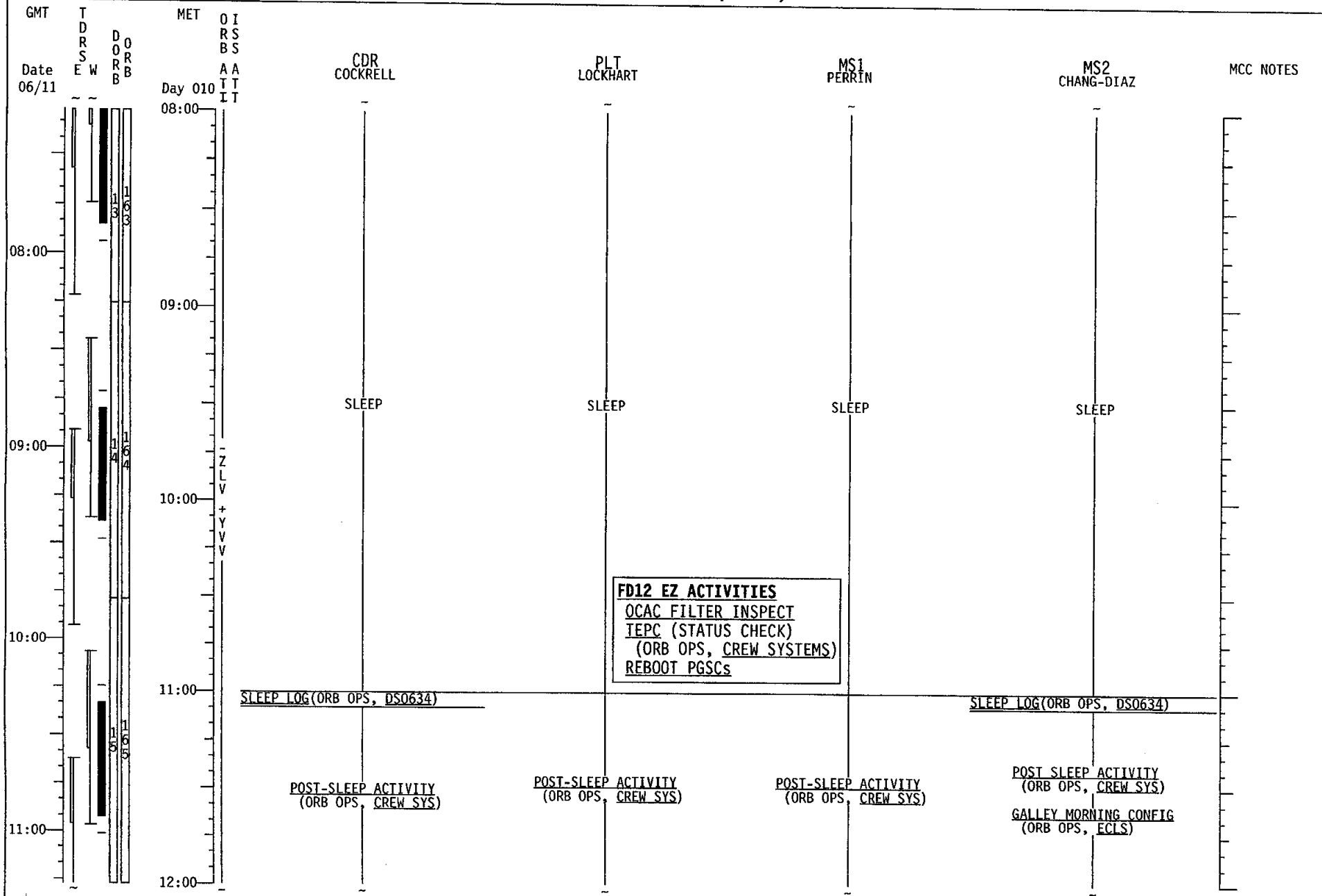


# STS-111 UF-2 (FD11)

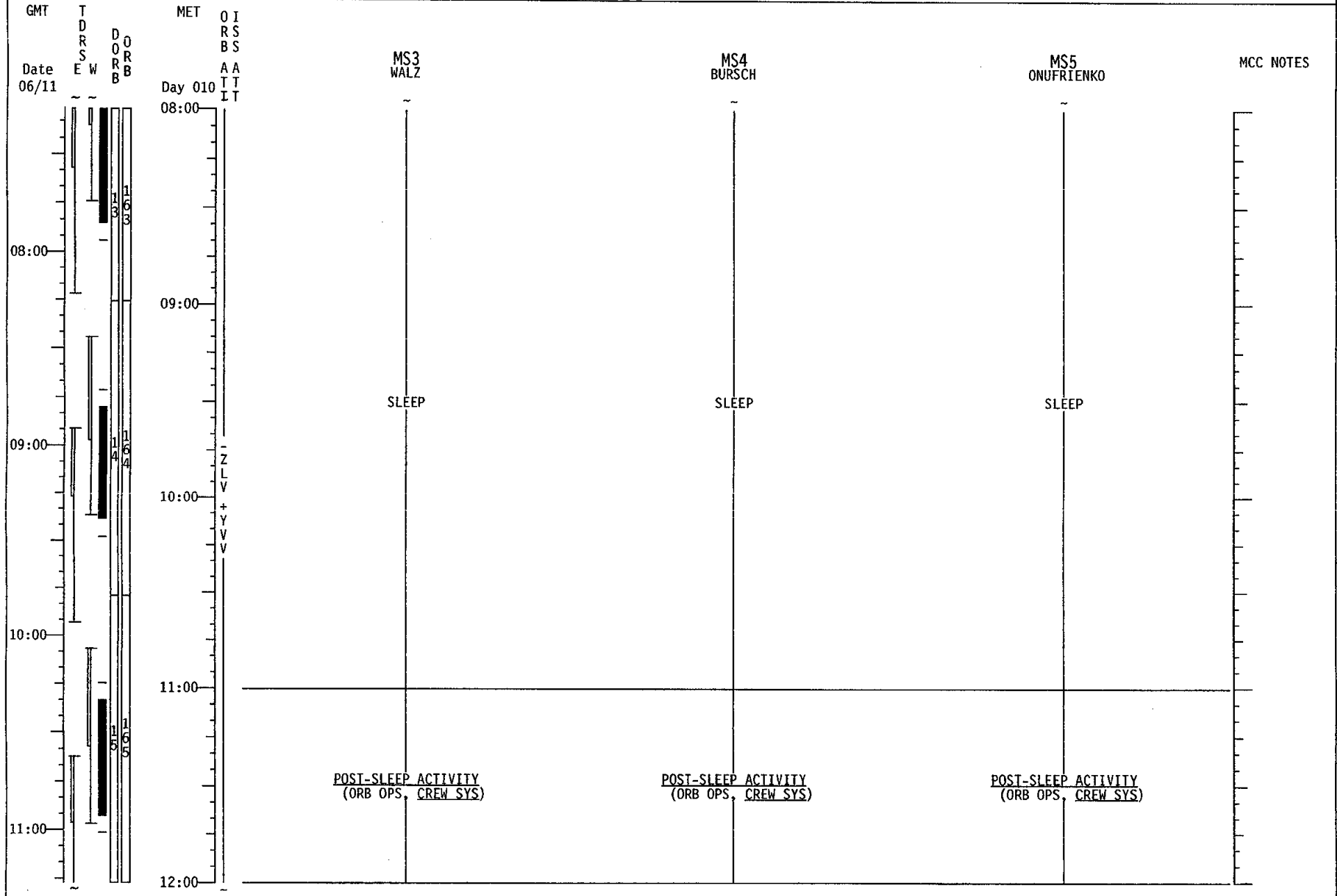




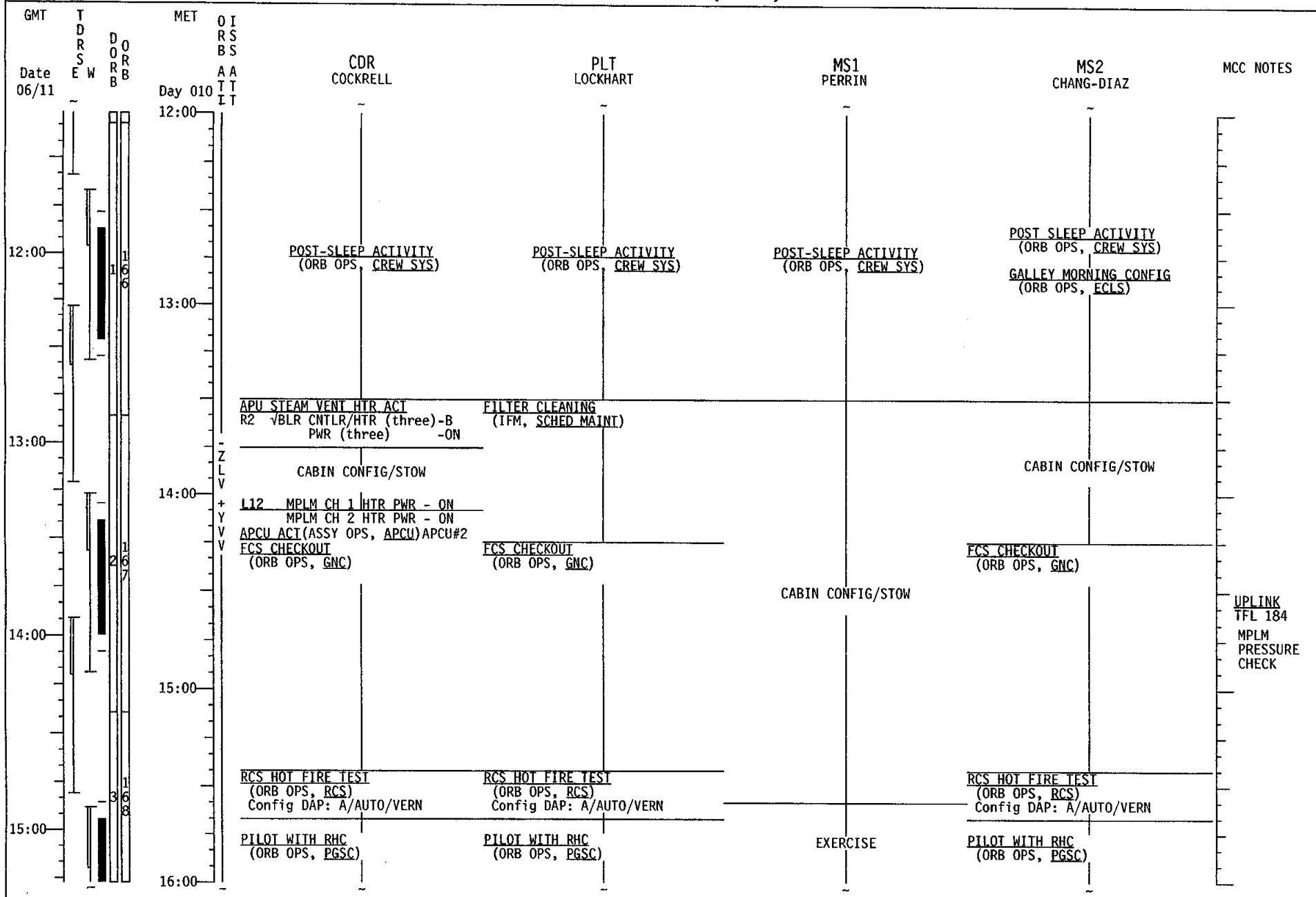
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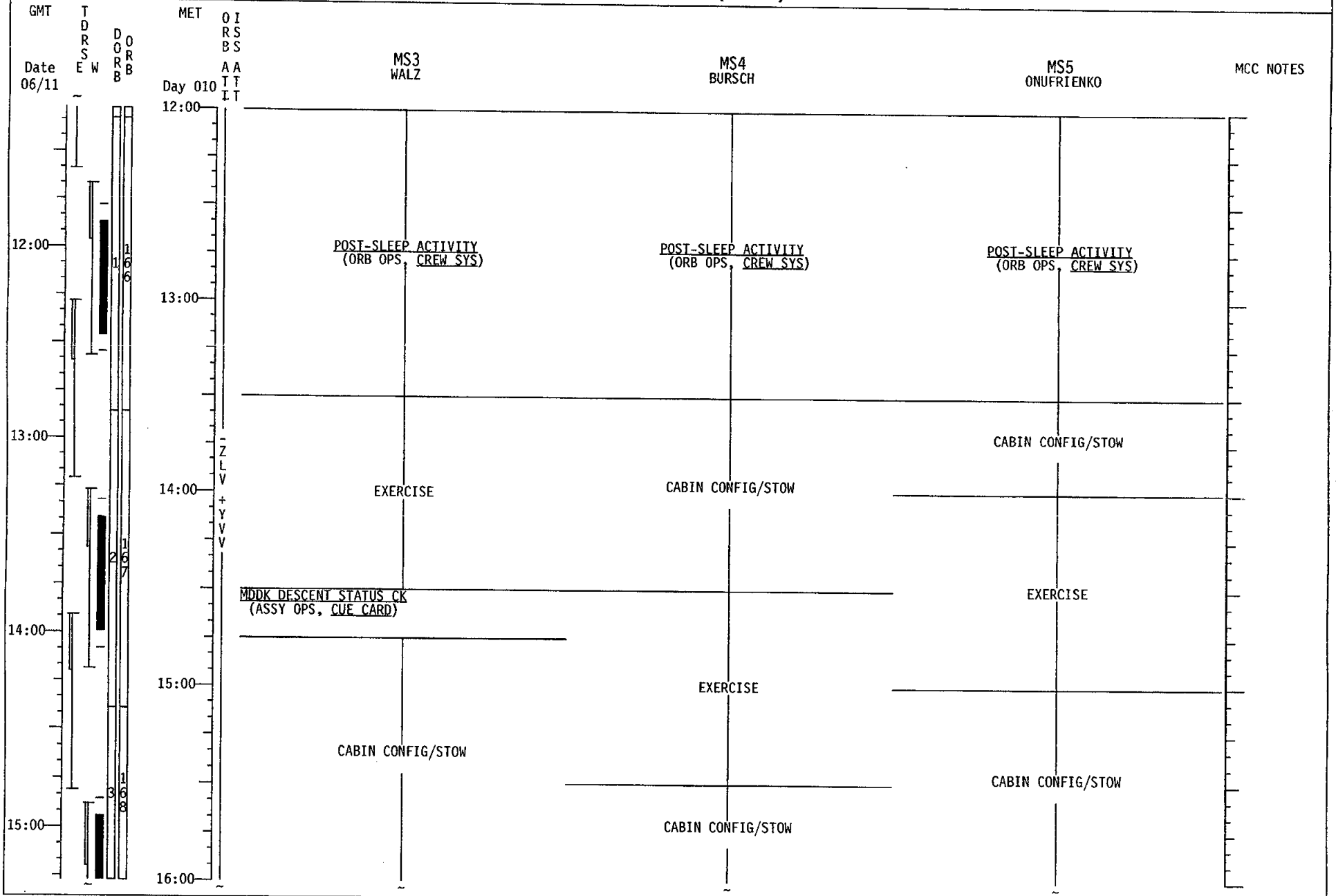
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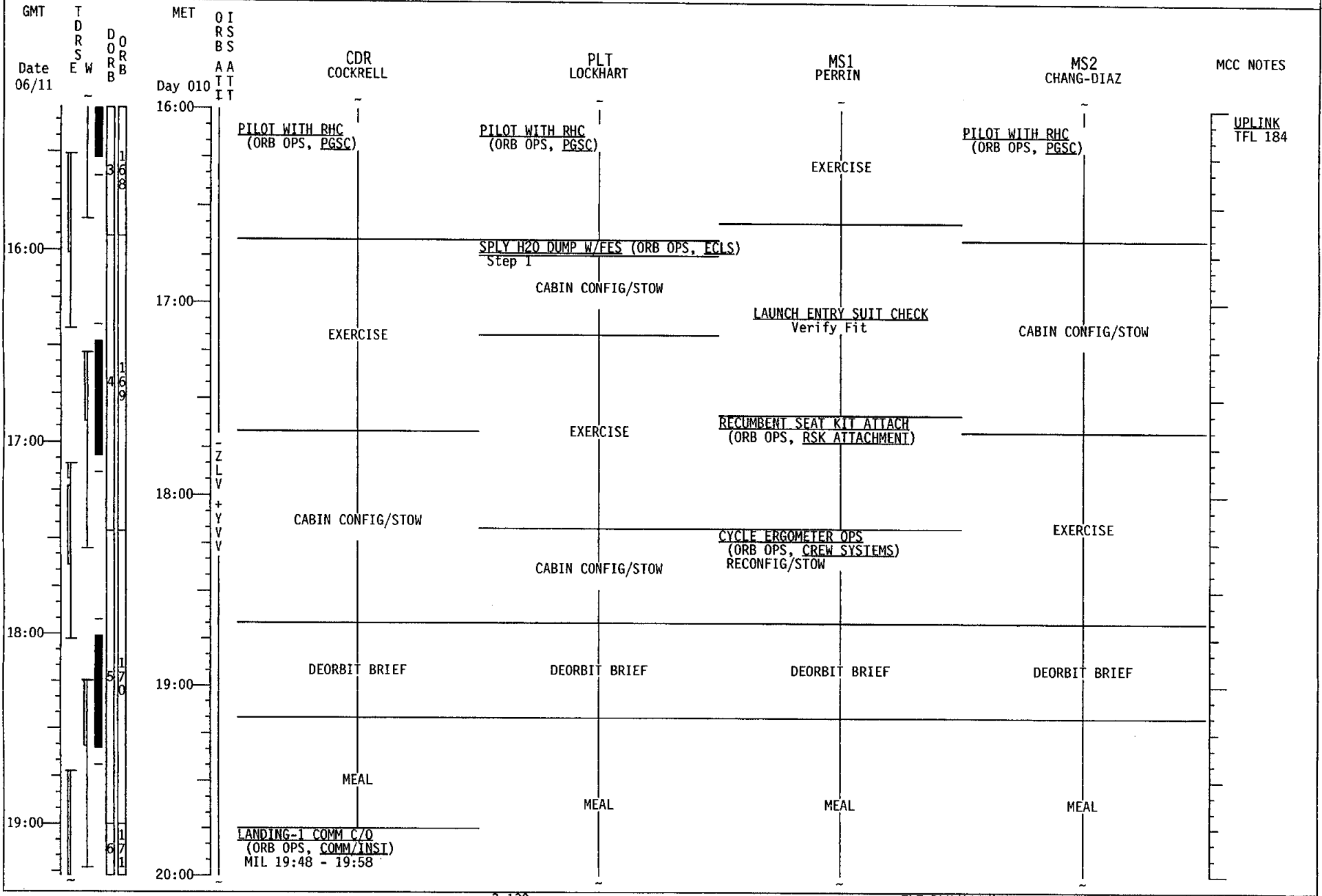
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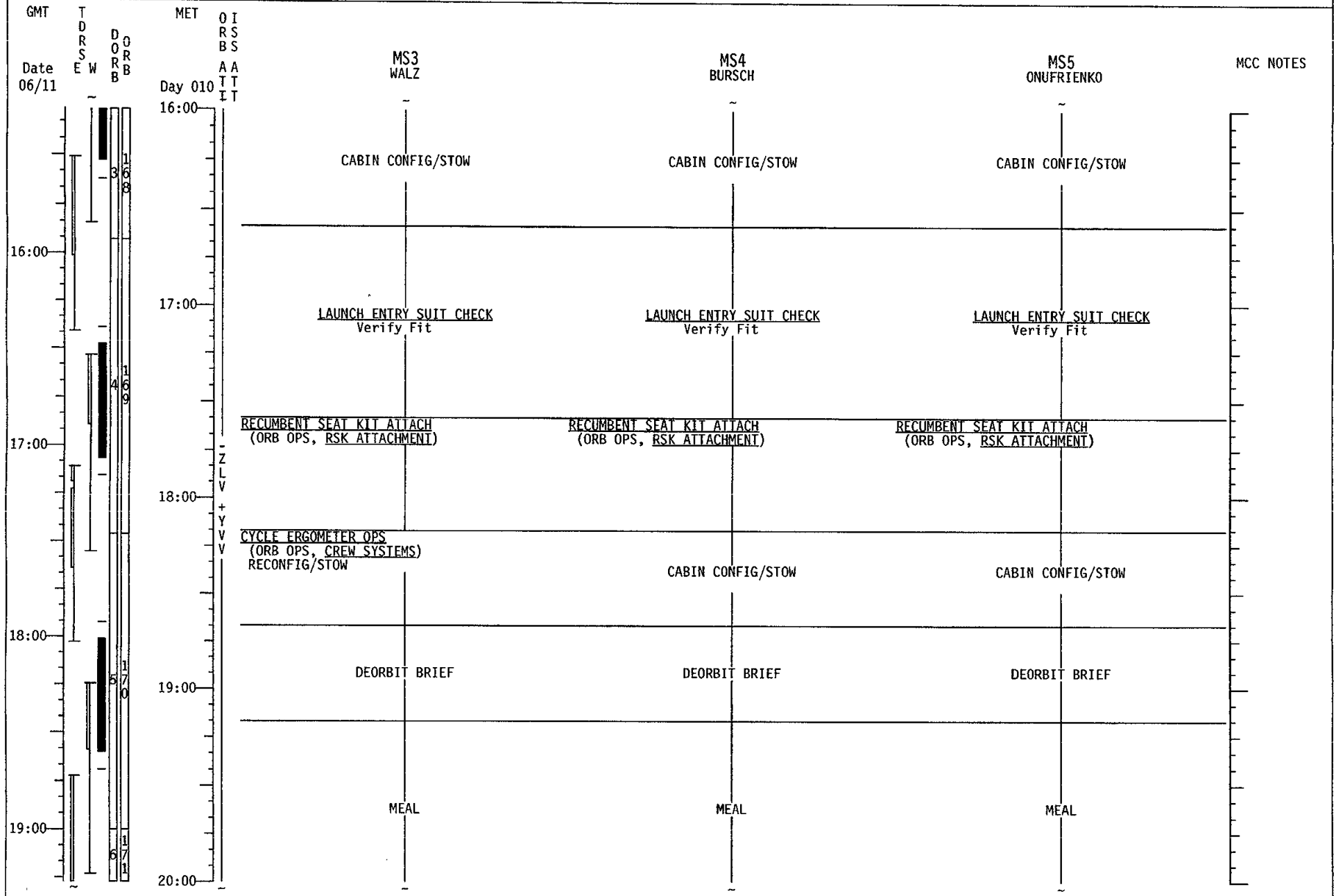
# STS-111 UF-2 (FD12)



# STS-111 UF-2 (FD12)



# STS-111 UF-2 (FD12)



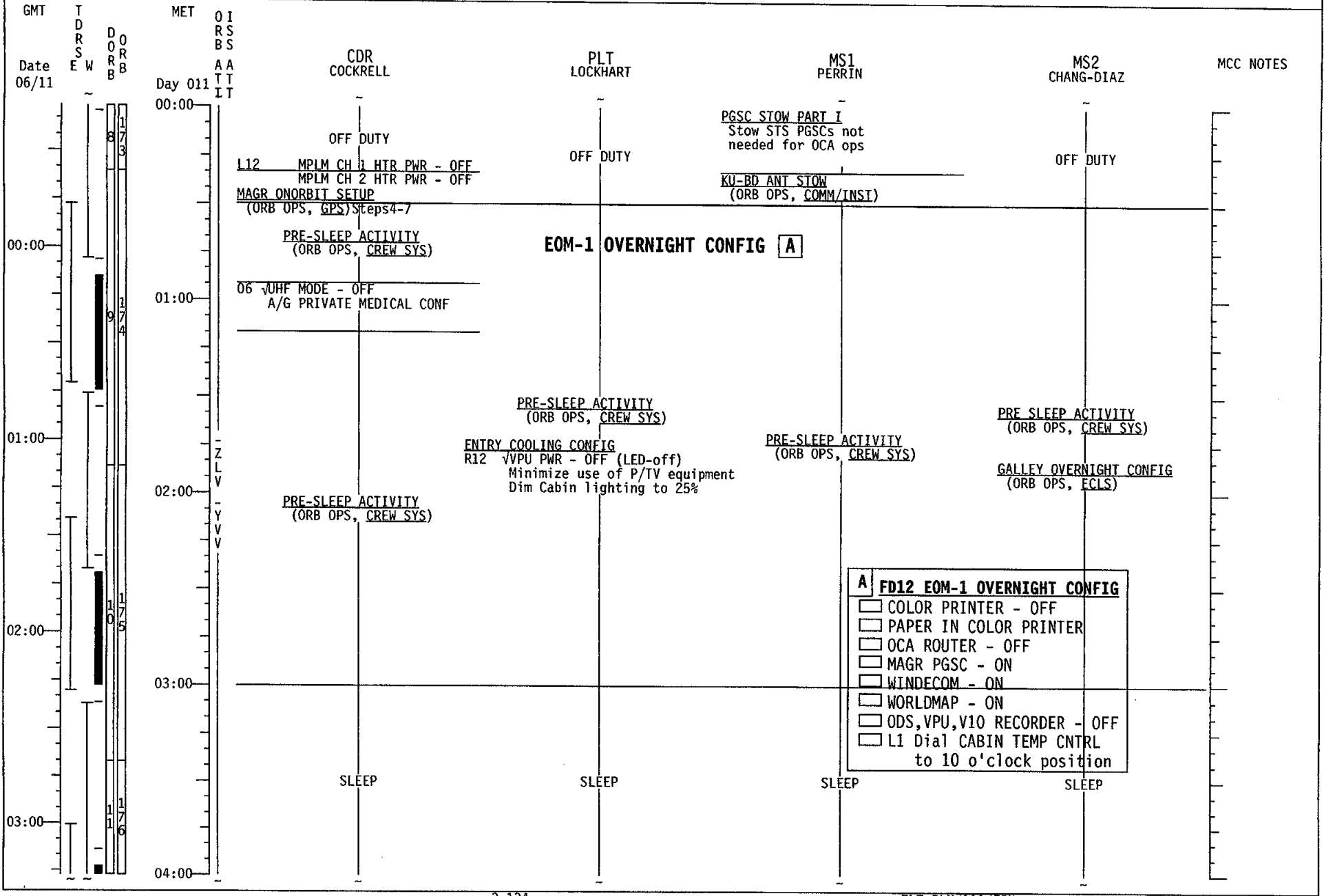


# STS-111 UF-2 (FD12)

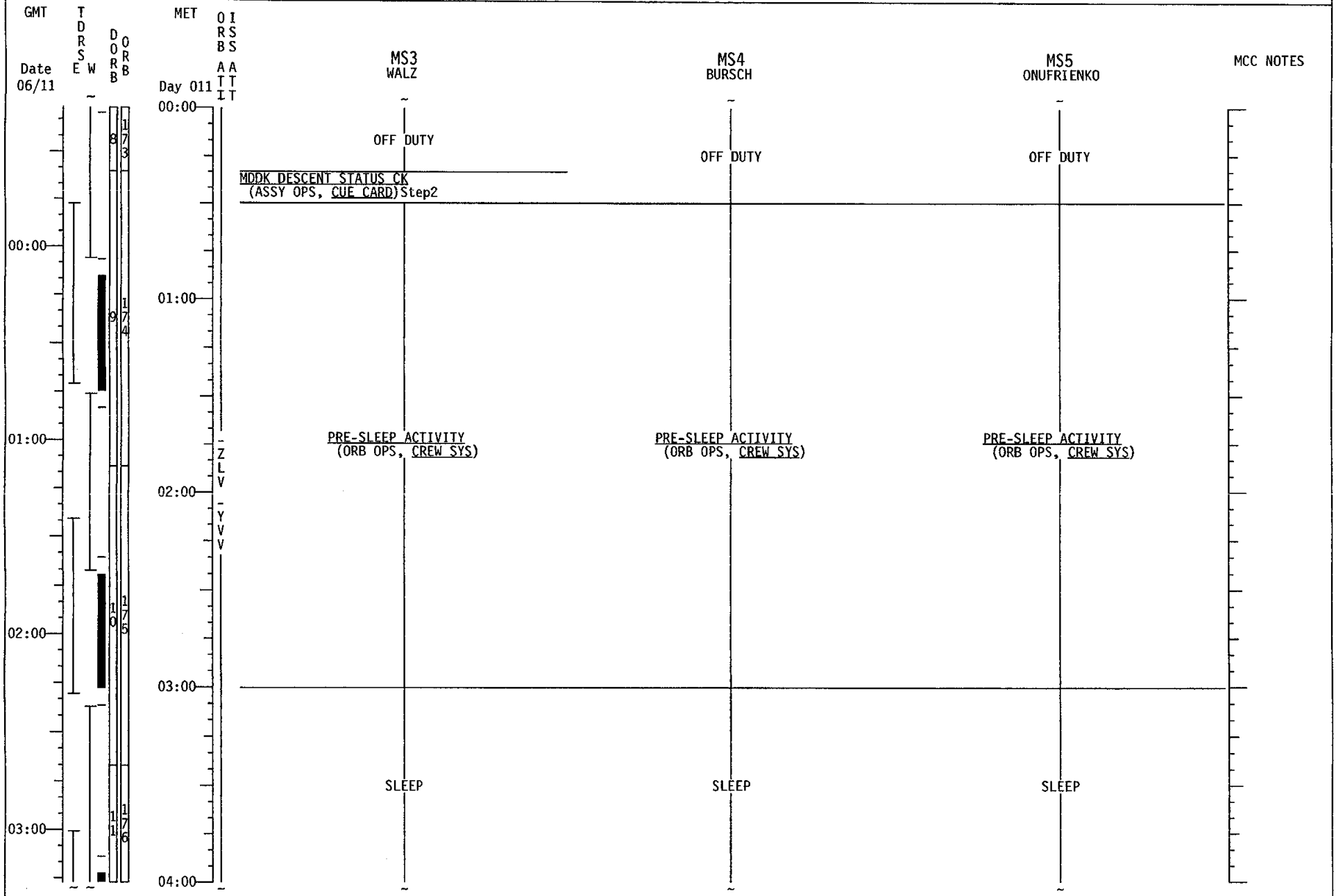
GMT Date 06/11	TDRS EW	DORB 171 172 173	MET Day 010	OIRSBS AA TT TT	MS3 WALZ	MS4 BURSCH	MS5 ONUFRIENKO	MCC NOTES
20:00					MEAL	MEAL	MEAL	
20:00					OFF DUTY	OFF DUTY	OFF DUTY	
21:00					OFF DUTY	OFF DUTY	OFF DUTY	
21:00					PUBLIC AFFAIRS EVENT REF MSG ###	PUBLIC AFFAIRS EVENT REF MSG ###	PUBLIC AFFAIRS EVENT REF MSG ###	
22:00					OFF DUTY	OFF DUTY	OFF DUTY	
23:00					OFF DUTY	OFF DUTY	OFF DUTY	
23:00					OFF DUTY	OFF DUTY	OFF DUTY	
00:00					OFF DUTY	OFF DUTY	OFF DUTY	



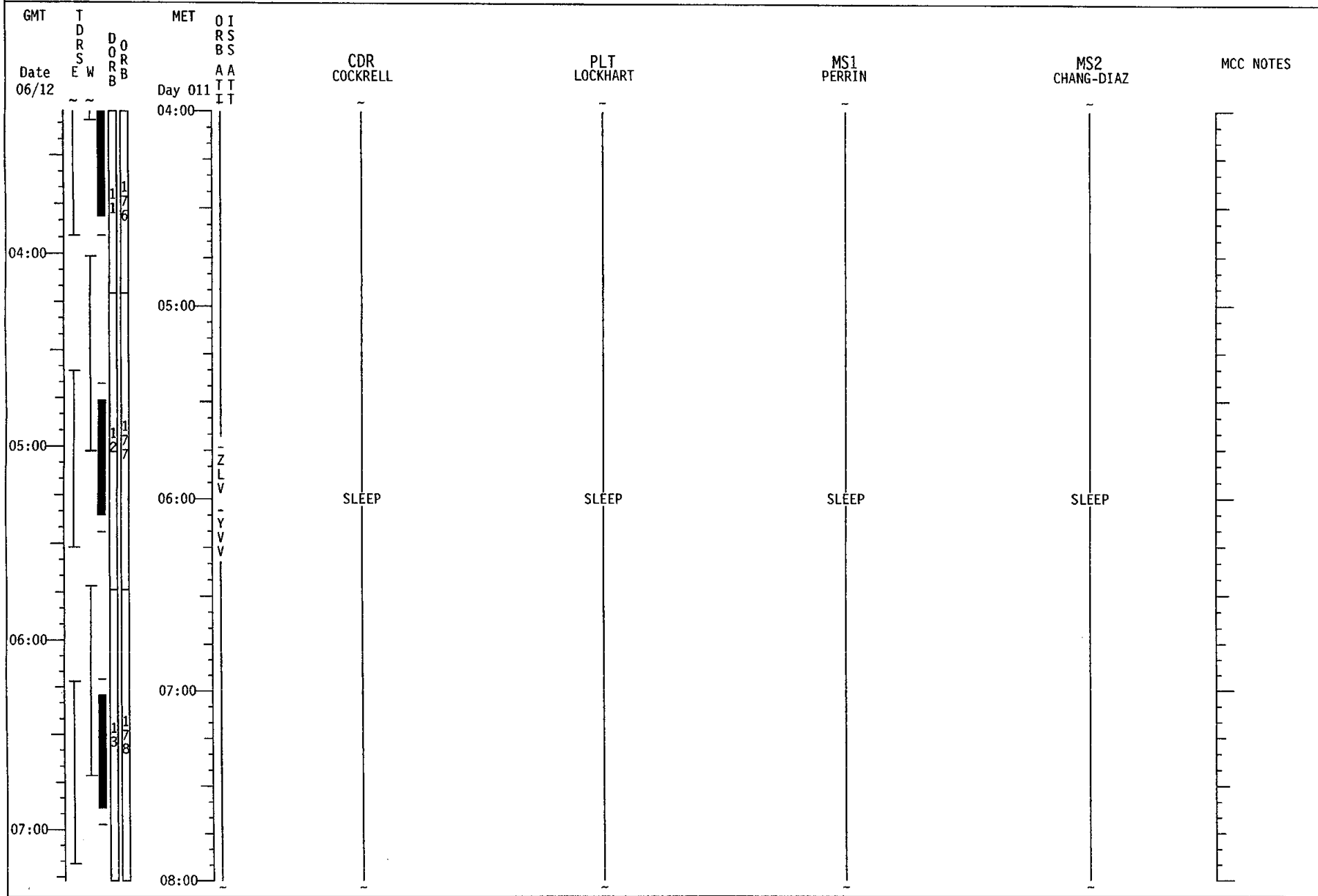
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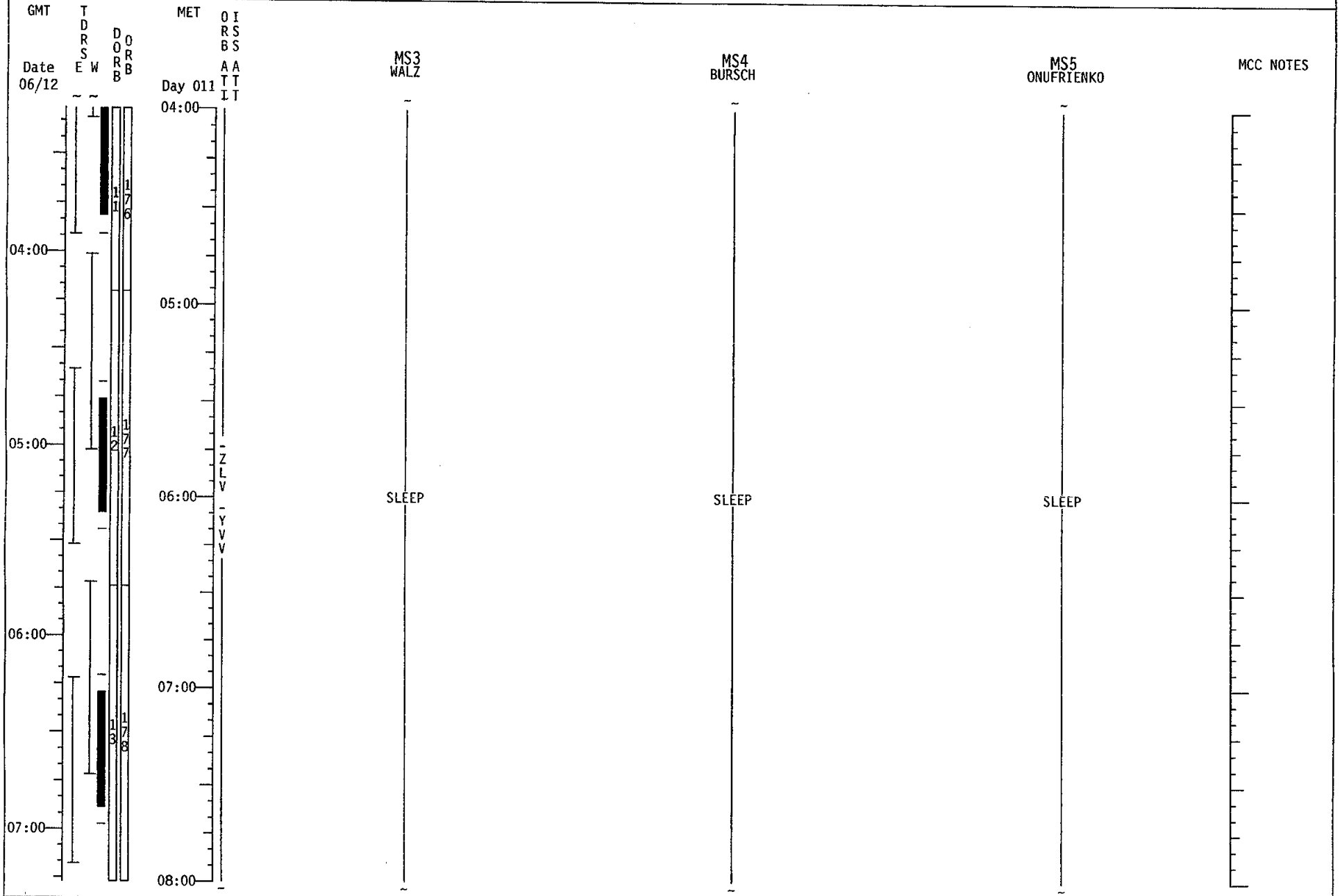
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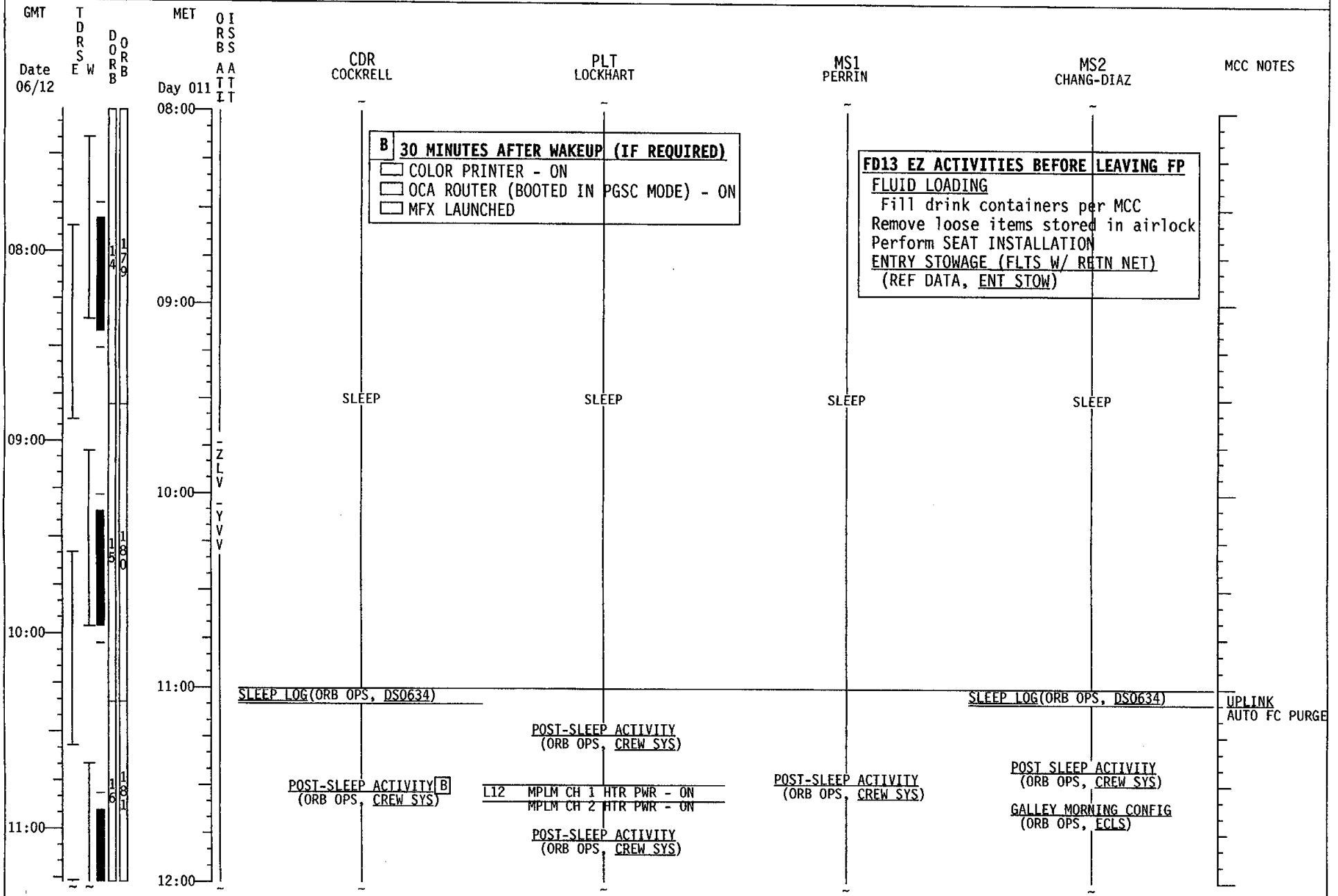
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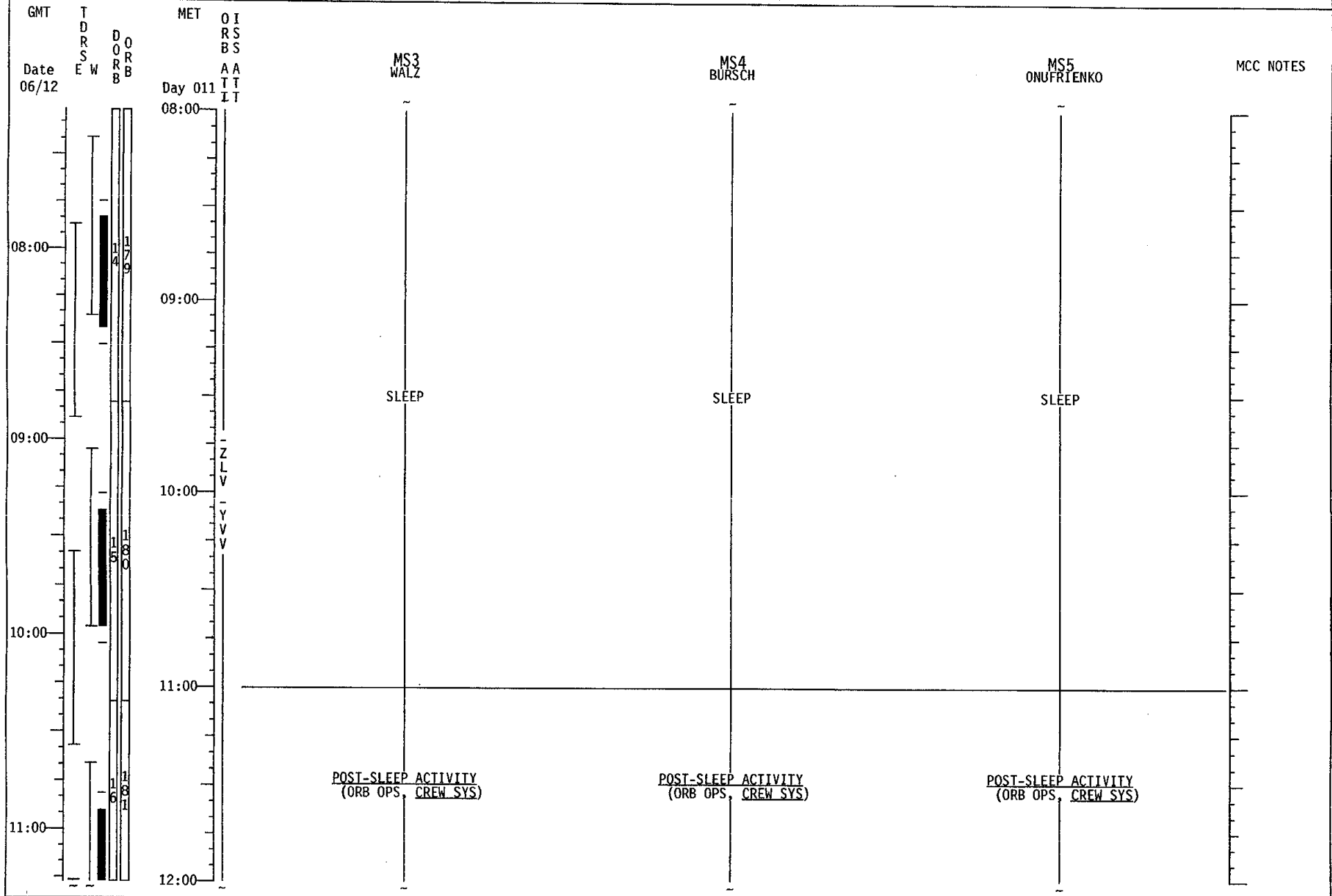
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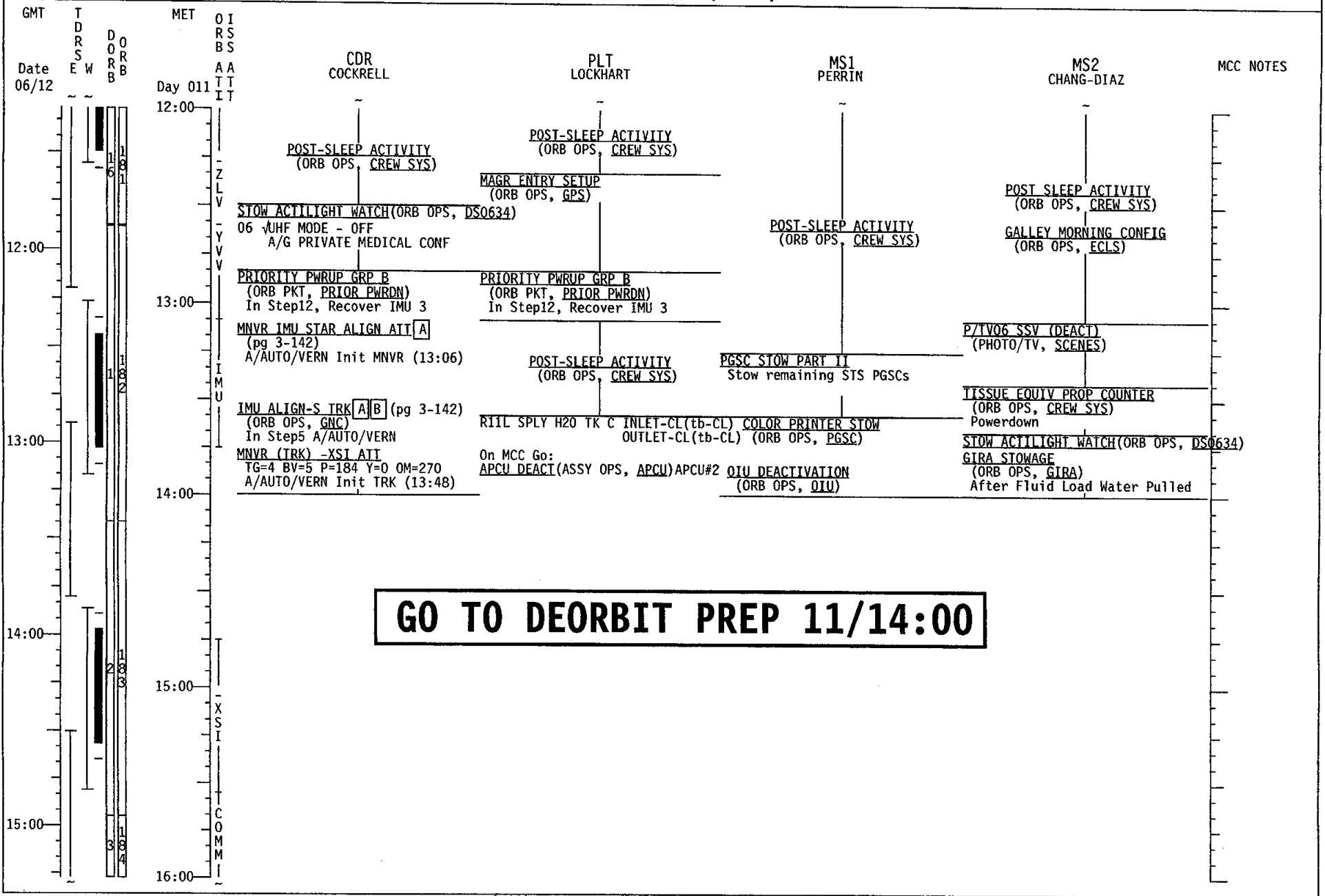
# STS-111 UF-2 (FD13)



# STS-111 UF-2 (FD13)

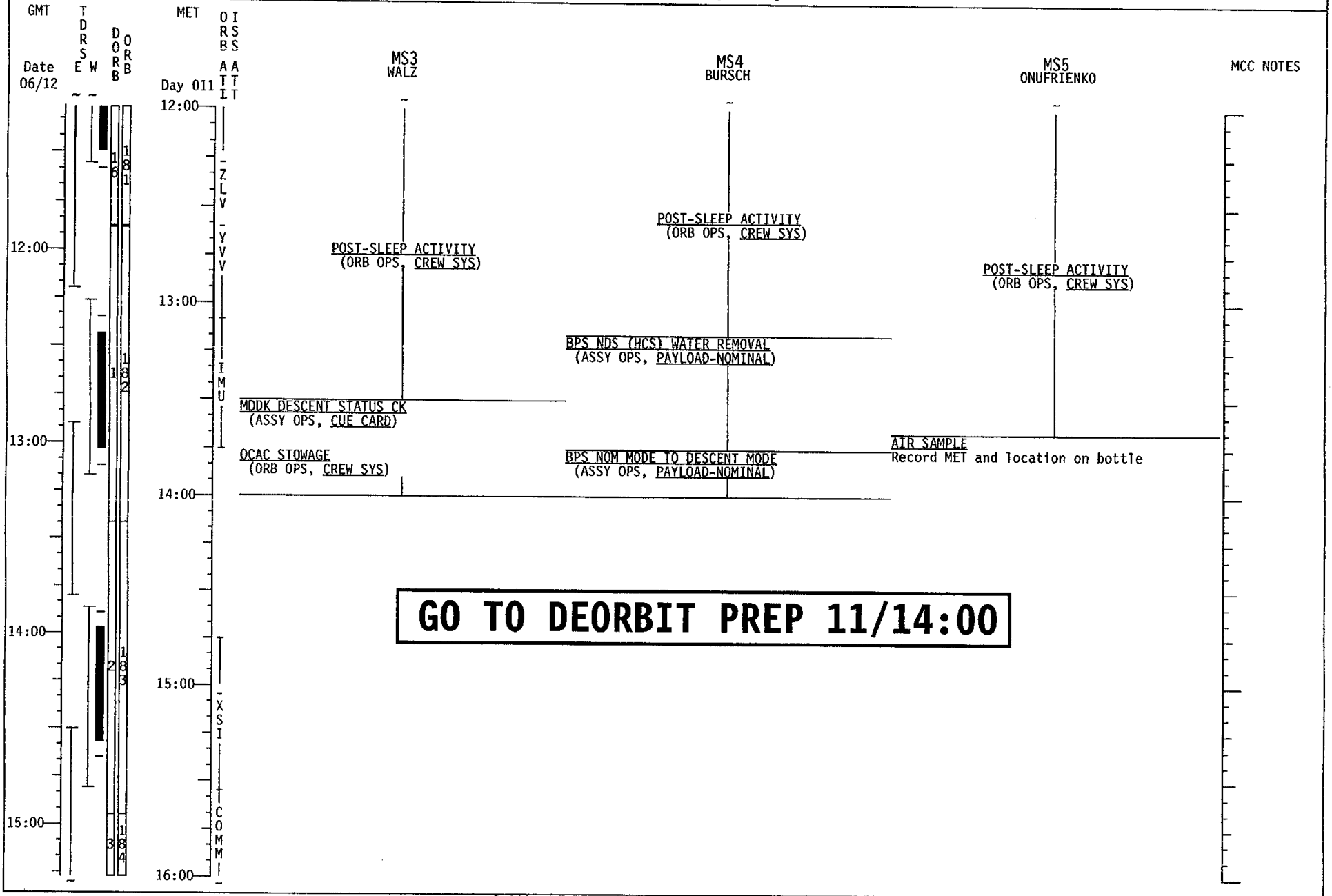


# STS-111 UF-2 (FD13)



GO TO DEORBIT PREP 11/14:00

# STS-111 UF-2 (FD13)





# STS-111 UF-2 (FD13)

GMT Date 06/12	TDRS E W	DORB 3 4 5 6	MET Day 011	OIRS BS AA TT IT	CDR COCKRELL	PLT LOCKHART	MS1 PERRIN	MS2 CHANG-DIAZ	MCC NOTES
16:00			16:00						
17:00			17:00	COMM					
18:00			18:00						
19:00			19:00	ENTRY					
20:00			20:00						

**A IMU STAR ALIGN**

ID: -Y: 51, ATRIA  
MET: (11/13:11 TO 11/14:01)

-Z: 22, ALTAIR  
MET: (11/13:06 TO 11/13:50)

ANG DIFF: 84.0 DEG

<u>DUAL S TRKR ALIGNMENT</u>	<u>2ND ATTITUDE (SINGLE S TRKR)</u>	
	-Z: 51    -Y: 22	
R 285	R 202	018
P 186	P 190	202
Y 331	Y 345	327

REQD ID:  
-Y: \_\_\_\_\_, -Z: \_\_\_\_\_, ANG ERR \_\_\_\_\_, \_\_\_\_\_

ANG:            1                            2                            3

ΔX ( ) \_\_\_\_\_ ( ) \_\_\_\_\_ ( ) \_\_\_\_\_

ΔY ( ) \_\_\_\_\_ ( ) \_\_\_\_\_ ( ) \_\_\_\_\_

ΔZ ( ) \_\_\_\_\_ ( ) \_\_\_\_\_ ( ) \_\_\_\_\_

EXECUTION TIME: \_\_\_\_/\_\_\_\_:\_\_\_\_:\_\_\_\_ MET

**B IMU STAR ALIGN**

ID: -Y: 50, AVIOR  
MET: (11/13:24 TO 11/14:17)

-Z: 54, DIPHDA  
MET: (11/13:25 TO 11/14:15)

ANG DIFF: 86.3 DEG

<u>DUAL S TRKR ALIGNMENT</u>	<u>2ND ATTITUDE (SINGLE S TRKR)</u>	
	-Z: 50    -Y: 54	
R 163	R 095	228
P 091	P 112	067
Y 307	Y 297	300

REQD ID:  
-Y: \_\_\_\_\_, -Z: \_\_\_\_\_, ANG ERR \_\_\_\_\_, \_\_\_\_\_

ANG:            1                            2                            3

ΔX ( ) \_\_\_\_\_ ( ) \_\_\_\_\_ ( ) \_\_\_\_\_

ΔY ( ) \_\_\_\_\_ ( ) \_\_\_\_\_ ( ) \_\_\_\_\_

ΔZ ( ) \_\_\_\_\_ ( ) \_\_\_\_\_ ( ) \_\_\_\_\_

**If any ΔX, ΔY OR ΔZ > 0.1 Check MCC**

EXECUTION TIME: \_\_\_\_/\_\_\_\_:\_\_\_\_:\_\_\_\_ MET

STS-111 DAP TABLE

STS-111  
DAP TABLE

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<u>DAP</u>	<u>PURPOSE</u>	<u>DAP</u>	<u>PURPOSE</u>
A1	- NOMINAL	B1	- NOM OMS RCS BURNS
A2	- PTC	B2	- LOSS OF VERN (TAIL ONLY)
A3	- GG	B3	- LOSS OF VERN (ALL)
A4	-	B4	-
A5	- LOSS OF VERN (ALL)	B5	- COAS/HUD CAL
A6	- LOSS OF VERN (TAIL ONLY)	B6	-
A7	- RENDEZVOUS	B7	- RENDEZVOUS
A8	- TERMINAL PHASE	B8	- TERMINAL PHASE
A9	- PROX OPS/FLYAROUND	B9	- PROX OPS/FLYAROUND
A10	- DOCKING	B10	- DOCKING
A11	- AUTO REBOOST	B11	-
A12	- MATED MNVRS & HOLD (VRCS)	B12	- MATED MNVRS & HOLD (PRCS)
A13	- A/L DEPRESS ATTITUDE CONTROL	B13	- A/L DEPRESS RATE DAMPING
A14	-	B14	-
A15	-	B15	-

DAPs FOR MATED OPS ARE BASED ON ANALYSIS FROM GNC, PDRS, AND DRAPER LABS

UNIV PTG	
TGT ID	= 1 Orbiting Vehicle = 2 Earth ctr = 3 Earth tgt Input LAT ( $\pm 90$ ) LON ( $\pm 180$ , + = Earth) ALT (-3444.0 to 20000.0 nm) = 4 Sun ctr = 5 Celestial tgt Input RA (0-359.99) DEC ( $\pm 90$ ) = 11-110 Nav Stars
BODY VECT	= 1 +X* = 2 -X* = 3 -Z* = 4 -Y Star Tracker* = 5 Optional Input P (0-359.99) Y (270-359.99, 0-90) * input OM $\rightarrow$ OM (0-359.99)
MON AXIS	= 1 +X = 2 -X

CNTL ACC = 0 UNLOADED RMS  
= 1 VRCS MATED CONTROL  
= 2 ALT PRCS MATED CONTROL  
= 3 A/L DEPRESS VRCS MATED CONTROL  
= 4 A/L DEPRESS ALT PRCS MATED CONTROL  
= 5-9 NOT USED

STS-111 DAP A1 THROUGH A8 CONFIGURATIONS

	ITEM #	A1	A2	A3	A4	A5	A6	A7	A8
<b>PRI</b>									
ROT RATE	10(50)	0.2000	0.4000	0.2000	0.5000	0.2000	0.2000	0.2000	0.0500
ATT DB	11(51)	5.00	1.00	0.30	3.00	5.00	5.00	2.00	2.00
RATE DB	12(52)	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
ROT PLS	13(53)	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
COMP	14(54)	.000	.000	.000	.000	.000	.000	.000	.000
P OPTION	15(55)	ALL	ALL	ALL	ALL	ALL	TAIL	ALL	ALL
Y OPTION	16(56)	ALL	ALL	TAIL	ALL	ALL	TAIL	ALL	ALL
TRAN PLS	17(57)	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
<b>ALT</b>									
RATE DB	18(58)	0.200	0.200	0.070	0.200	0.070	0.070	0.100	0.100
JET OPT	19(59)	ALL	ALL	ALL	ALL	ALL	TAIL	ALL	ALL
# JETS	20(60)	2	2	1	2	1	1	2	2
ON TIME	21(61)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
DELAY	22(62)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>VERN</b>									
ROT RATE	23(63)	0.2000	0.4000	0.0080	0.2000	0.0500	0.0500	0.0160	0.0500
ATT DB	24(64)	1.000	1.000	0.070	1.000	1.000	1.000	1.000	1.000
RATE DB	25(65)	.020	.020	.010	.020	.020	.020	.020	.020
ROT PLS	26(66)	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.050
COMP	27(67)	.000	.000	.000	.000	.000	.000	.000	.000
CNTL ACC	28(68)	0	0	0	0	0	0	0	0
PURPOSE		NOMINAL	PTC	GG		LOSS OF VERN (ALL)	LOSS OF VERN (TAIL ONLY)	RNDZ	TERMINAL PHASE

STS-111 DAP A9 THROUGH A15 CONFIGURATIONS

	ITEM #	A9	A10	A11	A12	A13	A14	A15
<b>PRI</b>								
ROT RATE	10(50)	0.1300	0.0500	<b>0.1000</b>	<b>0.1000</b>	<b>0.1000</b>	0.2000	0.1000
ATT DB	11(51)	1.00	0.50	<b>15.00</b>	5.00	5.00	5.00	40.00
RATE DB	12(52)	0.10	0.10	0.20	0.20	0.20	0.20	0.20
ROT PLS	13(53)	0.10	0.10	0.10	<b>0.04</b>	<b>0.04</b>	0.10	0.003
COMP	14(54)	.000	.000	.000	.000	.000	.000	.000
P OPTION	15(55)	TAIL	TAIL	<b>TAIL</b>	<b>TAIL</b>	<b>TAIL</b>	ALL	TAIL
Y OPTION	16(56)	TAIL	TAIL	<b>TAIL</b>	<b>TAIL</b>	<b>TAIL</b>	ALL	TAIL
TRAN PLS	17(57)	0.05	0.05	0.10	<b>0.01</b>	<b>0.01</b>	0.10	0.01
<b>ALT</b>								
RATE DB	18(58)	0.100	0.100	<b>0.070</b>	<b>0.070</b>	<b>0.070</b>	0.200	0.200
JET OPT	19(59)	TAIL	TAIL	<b>TAIL</b>	<b>TAIL</b>	<b>TAIL</b>	ALL	TAIL
# JETS	20(60)	2	2	<b>3</b>	<b>3</b>	<b>3</b>	2	2
ON TIME	21(61)	0.08	0.08	0.08	0.08	0.08	0.08	0.08
DELAY	22(62)	0.00	0.00	<b>12.00</b>	<b>11.04</b>	<b>11.04</b>	0.00	0.00
<b>VERN</b>								
ROT RATE	23(63)	0.1300	0.0500	<b>0.1000</b>	<b>0.1000</b>	<b>0.1000</b>	0.2000	0.0200
ATT DB	24(64)	1.000	0.500	<b>5.000</b>	<b>3.000</b>	<b>3.000</b>	1.000	5.000
RATE DB	25(65)	.020	.020	<b>.050</b>	<b>.050</b>	<b>.080</b>	.020	.050
ROT PLS	26(66)	0.050	0.050	0.010	<b>0.002</b>	<b>0.002</b>	0.010	0.001
COMP	27(67)	.000	.000	.000	.000	.000	.000	.000
CNTL ACC	28(68)	0	0	<b>1,2*</b>	<b>1</b>	<b>3,4**</b>	0	7
PURPOSE		PROX OPS/ FLYAROUND	DOCKING	AUTO REBOOST	MATED MNVRS & HOLD (VRCS)	A/L DEPRESS ATTITUDE CONTROL		

**BOLD-ITALIC** indicate a change from the I-load

\*1 For VERN, 2 for ALT

\*\*3 For VERN, 4 for ALT

STS-111 DAP B1 THROUGH B8 CONFIGURATIONS

	ITEM #	B1	B2	B3	B4	B5	B6	B7	B8
<b>PRI</b>									
ROT RATE	30(50)	0.5000	0.2000	0.2000	0.2000	0.2000	0.5000	0.5000	0.0500
ATT DB	31(51)	3.00	3.00	3.00	0.30	3.00	3.00	2.00	2.00
RATE DB	32(52)	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
ROT PLS	33(53)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
COMP	34(54)	.000	.000	.000	.000	.000	.000	.000	.000
P OPTION	35(55)	ALL	TAIL	ALL	TAIL	TAIL	ALL	ALL	ALL
Y OPTION	36(56)	ALL	TAIL	ALL	TAIL	TAIL	ALL	ALL	ALL
TRAN PLS	37(57)	0.10	0.02	0.02	0.02	0.02	0.02	0.05	0.05
<b>ALT</b>									
RATE DB	38(58)	0.200	0.070	0.070	0.100	0.200	0.200	0.100	0.100
JET OPT	39(59)	ALL	TAIL	ALL	ALL	ALL	ALL	ALL	ALL
# JETS	40(60)	2	1	1	2	2	2	2	2
ON TIME	41(61)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
DELAY	42(62)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>VERN</b>									
ROT RATE	43(63)	0.2000	0.2000	0.2000	0.0080	0.0160	0.2000	0.2000	0.0500
ATT DB	44(64)	1.000	1.000	1.000	0.100	0.033	1.000	1.000	1.000
RATE DB	45(65)	.020	.020	.020	.010	.020	.020	.020	.020
ROT PLS	46(66)	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.020
COMP	47(67)	.000	.000	.000	.000	.000	.000	.000	.000
CNTL ACC	48(68)	0	0	0	0	0	0	0	0
PURPOSE		NOMOMS RCS BURNS	LOSS OF VERN (TAIL ONLY)	LOSS OF VERN (ALL)		COAS/HUD CAL		RNDZ	TERMINAL PHASE

STS-111 B9 THROUGH B15 DAP CONFIGURATIONS

	ITEM #	B9	B10	B11	B12	B13	B14	B15
<b>PRI</b>								
ROT RATE	30(50)	0.1300	0.0500	0.5000	<b>0.1000</b>	<b>0.1000</b>	0.5000	0.1000
ATT DB	31(51)	1.00	0.50	3.00	<b>5.00</b>	<b>40.00</b>	3.00	40.00
RATE DB	32(52)	0.10	0.10	0.20	0.20	0.20	0.20	0.200
ROT PLS	33(53)	0.04	0.04	0.04	0.04	0.04	0.04	0.003
COMP	34(54)	.000	.000	.000	.000	.000	.000	.000
P OPTION	35(55)	TAIL	TAIL	ALL	<b>TAIL</b>	<b>TAIL</b>	ALL	TAIL
Y OPTION	36(56)	TAIL	TAIL	ALL	<b>TAIL</b>	<b>TAIL</b>	ALL	TAIL
TRAN PLS	37(57)	0.01	0.01	0.02	<b>0.01</b>	<b>0.01</b>	0.02	0.01
<b>ALT</b>								
RATE DB	38(58)	0.100	0.100	0.200	<b>0.070</b>	<b>0.070</b>	0.200	0.200
JET OPT	39(59)	TAIL	TAIL	ALL	<b>TAIL</b>	<b>TAIL</b>	ALL	TAIL
# JETS	40(60)	2	2	2	<b>3</b>	<b>3</b>	2	2
ON TIME	41(61)	0.08	0.08	0.08	0.08	0.08	0.08	0.08
DELAY	42(62)	0.00	0.00	0.00	<b>11.04</b>	<b>11.04</b>	0.00	0.00
<b>VERN</b>								
ROT RATE	43(63)	0.1300	0.0500	0.2000	<b>0.1000</b>	<b>0.1000</b>	0.2000	0.0200
ATT DB	44(64)	1.000	0.500	1.000	<b>3.000</b>	<b>40.000</b>	1.000	5.000
RATE DB	45(65)	.020	.020	.020	<b>.050</b>	<b>.050</b>	.020	.050
ROT PLS	46(66)	0.020	0.020	0.002	0.002	0.002	0.002	0.001
COMP	47(67)	.000	.000	.000	.000	.000	.000	.000
CNTL ACC	48(68)	0	0	0	<b>2</b>	<b>3,4**</b>	0	7
PURPOSE		PROX OPS/ FLYAROUND	DOCKING		MATED MNVRS & HOLD (PRCS)	A/L DEPRESS RATE DAMPING		

**BOLD-ITALIC** indicate a change from I-load or prior flight DAP configuration  
 \*\*3 for VERN, 4 for ALT



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ATTITUDE TIMELINE

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Attitude Timeline

MET/GMT	ORBITER		REF ATT/REMARKS	EVENT
	MNVR OPTION	DAP E/S/ $\beta$		
1 000/00:30:00 M  151/23:46:17 G	INRTL R = 49.00 MNVR P = 69.00 Y = 34.00  MNVR TRN/AUTO/PRI HOLD (same)	RATE 0.5000 DB AT 3.50 DB RT 0.20  SUN R 70 P 73 $\beta$ = 63	LVLH EQUIV (180,344,0)	OMS-2 Posi Head Down Dual OMS TIG 00:39
2 000/01:00:00 M  152/00:16:17 G				STS-111 Launch 31 May 2002 151/23:15:48 GMT
3 000/01:12:00 M 23:27  152/00:28:17 G 39:44	LVLH TRACK TGT = 2 P = 90.00 BV = 3 Y = 0.00 OM = 270.00  MNVR A6/AUTO/ALT HOLD (same)	RATE 0.2000 DB AT 5.00 DB RT 0.070  EARTH R 0 P 90 $\beta$ = 63	LVLH R= 0.00 P=180.00 Y= 90.00	-ZLV +YVV PLBD, SOPA
4 000/03:15:00 M 25:28  152/02:31:17 G 41:45	M50 (CALC) INRTL R = 49.00 MNVR P = 69.00 PYR Y = 34.00  MNVR B1/AUTO/VERN HOLD (same)	RATE 0.2000 DB AT 1.000 DB RT 0.020  SUN R 70 P 73 $\beta$ = 63	+X PYR R = 179.85 P = 343.82 Y = 0.37 LVLH 000/03:35:39 M 152/02:51:56 G	NC-1 Posi Head Down Dual OMS TIG 03:35:39 DV=40
5 000/03:40:00 M 54:58  152/02:56:17 G 03:11:15	LVLH TRACK TGT = 2 P = 90.00 BV = 3 Y = 0.00 OM = 0.00  MNVR A1/AUTO/VERN HOLD (same)	RATE 0.2000 DB AT 1.000 DB RT 0.020  EARTH R 0 P 90 $\beta$ = 63	LVLH R= 0.00 P=180.00 Y= 0.00	-ZLV -XVV
6 000/16:35:00 M 49:38  152/15:51:17 G 16:05:55	M50 (CALC) INRTL R = 49.00 MNVR P = 74.00 PYR Y = 31.00  MNVR B1/AUTO/VERN HOLD (same)	RATE 0.2000 DB AT 1.000 DB RT 0.020  SUN R 67 P 78 $\beta$ = 60	+X PYR R = 180.22 P = 344.18 Y = 6.04 LVLH 000/16:54:36 M 152/16:10:53 G	NC-2 Posi Head Down Right OMS TIG 16:54:36 DV=8
7 000/17:00:00 M 14:30  152/16:16:17 G 30:47	LVLH TRACK TGT = 2 P = 90.00 BV = 3 Y = 0.00 OM = 0.00  MNVR A1/AUTO/VERN HOLD (same)	RATE 0.2000 DB AT 1.000 DB RT 0.020  EARTH R 0 P 90 $\beta$ = 60	LVLH R= 0.00 P=180.00 Y= 0.00	-ZLV -XVV
8 000/20:40:00 M 55:00  152/19:56:17 G 20:11:17	M50 (CALC) INRTL R = 52.00 MNVR P = 20.00 PYR Y = 324.00  MNVR B1/AUTO/VERN HOLD (same)	RATE 0.2000 DB AT 1.000 DB RT 0.020  SUN R 68 P 111 $\beta$ = 60	+X PYR R = 179.91 P = 350.37 Y = 0.02 LVLH 000/21:01:49 M 152/20:18:06 G	NPC Posi Heads Down +X RCS NORMZ TIG 21:01:49 DV=4.4
9 000/21:05:00 M 20:00  152/20:21:17 G 36:17	LVLH TRACK TGT = 2 P = 90.00 BV = 3 Y = 0.00 OM = 0.00  MNVR A1/AUTO/VERN HOLD (same)	RATE 0.2000 DB AT 1.000 DB RT 0.020  EARTH R 0 P 90 $\beta$ = 59	LVLH R= 0.00 P=180.00 Y= 0.00	-ZLV -XVV
10 001/01:25:00 M 39:58  153/00:41:17 G 56:15	M50 (CALC) INRTL R = 57.00 MNVR P = 61.00 PYR Y = 27.00  MNVR B1/AUTO/VERN HOLD (same)	RATE 0.2000 DB AT 1.000 DB RT 0.020  SUN R 62 P 76 $\beta$ = 59	+X PYR R = 179.82 P = 344.01 Y = 359.61 LVLH 001/01:44:59 M 153/01:01:16 G	NC-3 Posi Heads Down Dual OMS TIG 01:44:59 DV=175

ALL ORBITER DATA IN  
MEAN OF 1950 AND PYR EULER SEQUENCE

5-3

FLT PLN/111/FIN

Attitude Timeline

MET/GMT	ORBITER			REF ATT/REMARKS	EVENT
	MNVR OPTION	DAP E/S/ $\beta$			
11 001/01:50:00 M 02:04:58  153/01:06:17 G 21:15	LVLH TRACK TGT = 2 P = 90.00 BV = 3 Y = 0.00 OM = 0.00  MNVR A1/AUTO/VERN HOLD (same)	RATE 0.2000 DB AT 1.000 DB RT 0.020  EARTH R 0 P 90 $\beta = 59$	LVLH R= 0.00 P=180.00 Y= 0.00	-ZLV -XVV	
12 001/11:45:00 M 52:30  153/11:01:17 G 08:47	LVLH TRACK TGT = 2 P = 90.00 BV = 3 Y = 0.00 OM = 270.00  MNVR A1/AUTO/VERN HOLD (same)	RATE 0.2000 DB AT 1.000 DB RT 0.020  EARTH R 0 P 90 $\beta = 57$	LVLH R= 0.00 P=180.00 Y= 90.00	-ZLV +YVV Simo Dump  FUTURE LOADED NIGHT BEFORE	
13 001/13:52:00 M  153/13:08:17 G				NH No MNVR Multi-Axis RCS TIG 13:52:00 DV= 0	
14 001/14:17:00 M 28:18  153/13:33:17 G 44:35	M50 (CALC) INRTL R = 117.00 MNVR P = 229.00 PYR Y = 355.00  MNVR A7/AUTO/ALT HOLD (same)	RATE 0.2000 DB AT 2.00 DB RT 0.100  SUN R 304 P 90 $\beta = 56$	+X PYR R = 359.77 P = 15.88 Y = 359.72 LVLH 001/14:37:37 M 153/13:53:54 G	NC-4 Posi Heads Up Dual OMS TIG 14:37:37 DV=129	
15 001/14:45:00 M 49:29  153/14:01:17 G 05:46	LVLH TRACK TGT = 2 P = 0.00 BV = 5 Y = 0.00 OM = 0.00  MNVR B7/AUTO/ALT HOLD (same)	RATE 0.5000 DB AT 2.00 DB RT 0.100  EARTH R 305 P 0 $\beta = 56$	LVLH R= 0.00 P=270.00 Y= 0.00	-Z TGT TRK  Sunset 15:05	
16 001/15:01:00 M 14:53  153/14:17:17 G 31:10	LVLH TRACK TGT = 2 P = 350.00 BV = 5 Y = 0.00 OM = 0.00  MNVR A7/AUTO/VERN HOLD (same)	RATE 0.0120 DB AT 1.000 DB RT 0.020  EARTH R 180 P 10 $\beta = 56$	LVLH R= 0.00 P=280.00 Y= 0.00	-Z TGT TRK	
17 001/15:16:00 M 43:47  153/14:32:17 G 15:00:04	LVLH TRACK TGT = 2 P = 335.00 BV = 5 Y = 0.00 OM = 0.00  MNVR A7/AUTO/VERN HOLD (same)	RATE 0.0090 DB AT 1.000 DB RT 0.020  EARTH R 180 P 25 $\beta = 56$	LVLH R= 0.00 P=295.00 Y= 0.00	-Z TGT TRK	
18 001/15:44:00 M 49:57  153/15:00:17 G 06:14	LVLH TRACK TGT = 2 P = 0.00 BV = 5 Y = 0.00 OM = 0.00  MNVR A7/AUTO/VERN HOLD (same)	RATE 0.0700 DB AT 1.000 DB RT 0.020  EARTH R 90 P 0 $\beta = 56$	LVLH R= 0.00 P=270.00 Y= 0.00	-Z TGT TRK	
19 001/15:50:00 M 52:26  153/15:06:17 G 08:43	M50 (CALC) INRTL R = 117.00 MNVR P = 234.00 PYR Y = 357.00  MNVR A7/AUTO/ALT HOLD (same)	RATE 0.2000 DB AT 2.00 DB RT 0.100  SUN R 304 P 86 $\beta = 56$	+X PYR R = 359.64 P = 15.76 Y = 354.44 LVLH 001/16:09:47 M 153/15:26:04 G	TI Posi Head Up Left OMS TIG 16:09:47 DV=8.9	
20 001/16:11:00 M 14:41  153/15:27:17 G 30:58	LVLH TRACK TGT = 2 P = 0.00 BV = 5 Y = 0.00 OM = 0.00  MNVR B7/AUTO/ALT HOLD (same)	RATE 0.5000 DB AT 2.00 DB RT 0.100  EARTH R 301 P 0 $\beta = 56$	LVLH R= 0.00 P=270.00 Y= 0.00	-Z TGT TRK  Sunset 16:38	

ALL ORBITER DATA IN  
MEAN OF 1950 AND PYR EULER SEQUENCE

Attitude Timeline

MET/GMT	ORBITER		REF ATT/REMARKS	EVENT
	MNVR OPTION	DAP E/S/ $\beta$		
21 001/16:29:00 M 58:46 153/15:45:17 G 16:15:03	LVLH TRACK TGT = 2 P = 335.00 BV = 5 Y = 0.00 OM = 0.00 MNVR A7/AUTO/VERN HOLD (same)	RATE 0.0140 DB AT 1.000 DB RT 0.020 EARTH R 180 P 25 $\beta = 56$	LVLH R= 0.00 P=295.00 Y= 0.00	-Z TGT TRK
22 001/16:59:00 M 17:31:46 153/16:15:17 G 48:03	LVLH TRACK TGT = 2 P = 278.00 BV = 5 Y = 0.00 OM = 0.00 MNVR A7/AUTO/VERN HOLD (same)	RATE 0.0290 DB AT 1.000 DB RT 0.020 EARTH R 180 P 82 $\beta = 56$	LVLH R= 0.00 P=352.00 Y= 0.00	-Z TGT TRK
23 001/17:34:00 M 36:40 153/16:50:17 G 52:57	LVLH TRACK TGT = 2 P = 270.00 BV = 5 Y = 0.00 OM = 0.00 MNVR A8/AUTO/VERN HOLD (same)	RATE 0.0500 DB AT 1.000 DB RT 0.020 EARTH R 180 P 90 $\beta = 56$	LVLH R= 0.00 P= 0.00 Y= 0.00	+ZLV +XV Establish RBAR after MC4 TIG
24 001/17:46:00 M 57:32 153/17:02:17 G 13:49	LVLH TRACK TGT = 2 P = 180.00 BV = 5 Y = 0.00 OM = 0.00 MNVR A9/AUTO/VERN HOLD (same)	RATE 0.1300 DB AT 1.000 DB RT 0.020 EARTH R 37 P 180 $\beta = 56$	LVLH R= 0.00 P= 90.00 Y= 0.00	-XLV +ZV TORVA +RBar to +VBar
25 001/18:31:00 M 153/17:47:17 G	FREE DRIFT Config DAP: A12 for Att. Cntrl			DOCK ISS (0,0,0)
26 001/18:51:00 M 54:40 153/18:07:17 G 10:57	LVLH TRACK TGT = 2 P = 161.00 BV = 5 Y = 349.00 OM = 359.00 MNVR A12/AUTO/VERN HOLD (same)	RATE 0.1000 DB AT 3.000 DB RT 0.050 EARTH R 329 P 158 $\beta = 55$	LVLH R= 4.58 P=109.50 Y=349.94	BIAS -XLV +ZV Power-BIAS TEA ISS (-5,20,-10) ISS Roll-Bias TEA
27 004/02:43:43 M 03:03:14 156/02:00:00 G 19:31	LVLH TRACK TGT = 2 P = 157.00 BV = 5 Y = 0.00 OM = 0.00 MNVR A12/FREE/VERN HOLD (same)	RATE 0.0100 DB AT 3.000 DB RT 0.050 EARTH R 0 P 157 $\beta = 45$	LVLH R= 0.00 P=113.00 Y= 0.00 Approximate Transition to Nominal TEA when B=45	BIAS -XLV +ZV Nom. ISS TEA ISS (0,23,0) ISS Controlled CMG MNVR Rate: 0.01
28 004/22:55:00 M 23:25:00 156/22:11:17 G 41:17	LVLH TRACK TGT = 2 P = 120.00 BV = 5 Y = 0.00 OM = 180.00 MNVR A12/AUTO/VERN HOLD (same)	RATE 0.1000 DB AT 3.000 DB RT 0.050 EARTH R 0 P 120 $\beta = 41$	LVLH R=180.00 P= 30.00 Y= 0.00	MNVR Reboost 1 Bias -ZLV +XV Config 4 TIG 23:30-0:30 ISS (180,60,0)
29 005/00:30:00 M 01:00:00 156/23:46:17 G 157/00:16:17	LVLH TRACK TGT = 2 P = 157.00 BV = 5 Y = 0.00 OM = 0.00 MNVR A12/AUTO/VERN HOLD (same)	RATE 0.1000 DB AT 3.000 DB RT 0.050 EARTH R 0 P 157 $\beta = 40$	LVLH R= 0.00 P=113.00 Y= 0.00	BIAS -XLV +ZV Approx ISS TEA ISS (0,23,0)
30 005/14:10:00 M 25:00 157/13:26:17 G 41:17	LVLH TRACK TGT = 2 P = 157.00 BV = 5 Y = 0.00 OM = 270.00 MNVR A12/AUTO/VERN HOLD (same)	RATE 0.1000 DB AT 3.000 DB RT 0.050 EARTH R 0 P 157 $\beta = 38$	LVLH R= 90.00 P= 90.00 Y= 23.00	BIAS -XLV +YV Simo Dump (Simo then CWC) ISS (-90,23,0)

ALL ORBITER DATA IN  
MEAN OF 1950 AND PYR EULER SEQUENCE



Attitude Timeline

MET/GMT	ORBITER		REF ATT/REMARKS	EVENT
	MNVR OPTION	DAP E/S/ $\beta$		
31 005/16:55:00 M 17:10:00  157/16:11:17 G 26:17	LVLH TRACK TGT = 2 P = 157.00 BV = 5 Y = 0.00 OM = 0.00  MNVR A12/AUTO/VERN HOLD (same)	RATE 0.1000 DB AT 3.000 DB RT 0.050  EARTH R 0 P 157 $\beta = 37$	LVLH R= 0.00 P=113.00 Y= 0.00	BIAS -XLV +ZVV Approx ISS TEA  ISS (0,23,0)
32 006/15:10:00 M 40:00  158/14:26:17 G 56:17	LVLH TRACK TGT = 2 P = 120.00 BV = 5 Y = 0.00 OM = 180.00  MNVR A12/AUTO/VERN HOLD (same)	RATE 0.1000 DB AT 3.000 DB RT 0.050  EARTH R 0 P 120 $\beta = 33$	LVLH R=180.00 P= 30.00 Y= 0.00	MNVR Reboost 2 Bias -ZLV +XVV Config 4  TIG 15:45-16:45  ISS (180,60,0)
33 006/16:45:00 M 17:00:58  158/16:01:17 G 17:15	LVLH TRACK TGT = 2 P = 157.00 BV = 5 Y = 0.00 OM = 270.00  MNVR A12/AUTO/VERN HOLD (same)	RATE 0.1000 DB AT 3.000 DB RT 0.050  EARTH R 0 P 157 $\beta = 33$	LVLH R= 90.00 P= 90.00 Y= 23.00	BIAS -XLV +YVV Supply Dump (CWC + PWR)  ISS (-90,23,0)
34 006/19:25:00 M 40:00  158/18:41:17 G 56:17	LVLH TRACK TGT = 2 P = 157.00 BV = 5 Y = 0.00 OM = 0.00  MNVR A12/AUTO/VERN HOLD (same)	RATE 0.1000 DB AT 3.000 DB RT 0.050  EARTH R 0 P 157 $\beta = 32$	LVLH R= 0.00 P=113.00 Y= 0.00	BIAS -XLV +ZVV Approx ISS TEA  ISS (0,23,0)
35 008/15:10:00 M 40:00  160/14:26:17 G 56:17	LVLH TRACK TGT = 2 P = 175.00 BV = 5 Y = 0.00 OM = 180.00  MNVR A12/AUTO/VERN HOLD (same)	RATE 0.1000 DB AT 3.000 DB RT 0.050  EARTH R 0 P 175 $\beta = 23$	LVLH R=180.00 P= 85.00 Y= 0.00	MNVR Reboost 3 Bias -XLV -ZVV Config 3  TIG 15:45-16:45  ISS (180,5,0)
36 008/16:45:00 M 17:00:14  160/16:01:17 G 16:31	LVLH TRACK TGT = 2 P = 157.00 BV = 5 Y = 0.00 OM = 270.00  MNVR A12/AUTO/VERN HOLD (same)	RATE 0.1000 DB AT 3.000 DB RT 0.050  EARTH R 0 P 157 $\beta = 23$	LVLH R= 90.00 P= 90.00 Y= 23.00	BIAS -XLV +YVV Supply Dump  ISS (-90,23,0)
37 008/18:45:00 M 19:00:00  160/18:01:17 G 16:17	LVLH TRACK TGT = 2 P = 157.00 BV = 5 Y = 0.00 OM = 0.00  MNVR A12/AUTO/VERN HOLD (same)	RATE 0.1000 DB AT 3.000 DB RT 0.050  EARTH R 0 P 157 $\beta = 23$	LVLH R= 0.00 P=113.00 Y= 0.00	BIAS -XLV +ZVV Approx ISS TEA  ISS (0,23,0)
38 009/16:50:00 M 53:50  161/16:06:17 G 10:07	LVLH TRACK TGT = 2 P = 180.00 BV = 5 Y = 0.00 OM = 0.00  MNVR A12/AUTO/VERN HOLD (same)	RATE 0.1000 DB AT 3.000 DB RT 0.050  EARTH R 326 P 180 $\beta = 19$	LVLH R= 0.00 P= 90.00 Y= 0.00	-XLV +ZVV Prep for Undock  ISS (0,0,0)  Note:BV=5 keeps w RNDZ/Flyaround
39 009/17:57:00 M   161/17:13:17 G	FREE DRIFT  for Undocking			UNDOCK  9/18:00
40 009/18:31:00 M   161/17:47:17 G	LVLH FREE ROTATION ROTR ABOUT +Y AXIS RATE=0.130  MNVR A9/LVLH/VERN HOLD (same)	RATE 0.1300 DB AT 1.000 DB RT 0.020  $\beta = 18$	LVLH R= 0.00 P= 90.00 Y= 0.00	FLY AROUND

ALL ORBITER DATA IN  
MEAN OF 1950 AND PYR EULER SEQUENCE

Attitude Timeline

MET/GMT	ORBITER		REF ATT/REMARKS	EVENT
	MNVR OPTION	DAP E/S/ $\beta$		
41 009/19:40:30 M  161/18:56:47 G	  HOLD A9/LVLH/VERN	RATE 0.1300 DB AT 1.000 DB RT 0.020  EARTH R 180 P 2 $\beta = 18$	LVLH R= 0.00 HOLD P=272.10 Y= 0.00	LVLH HOLD
42 009/19:44:00 M  161/19:00:17 G			DV= -3.5	FINAL SEP Manual Maneuver from end of the Flyaround +X RCS LOWZ Retrograde TIG 19:44
43 009/19:47:00 M 57:06  161/19:03:17 G 13:23	LVLH TRACK TGT = 2 P = 90.00 BV = 3 Y = 0.00 OM = 270.00 MNVR A1/AUTO/VERN HOLD (same)	RATE 0.2000 DB AT 1.000 DB RT 0.020  EARTH R 0 P 90 $\beta = 18$	LVLH R= 0.00 P=180.00 Y= 90.00	-ZLV +YVV MNVR post SEP for Simo Dump FROM 20:30-22:10
44 010/21:00:00 M 15:00  162/20:16:17 G 31:17	LVLH TRACK TGT = 2 P = 90.00 BV = 3 Y = 0.00 OM = 90.00 MNVR A1/AUTO/VERN HOLD (same)	RATE 0.2000 DB AT 1.000 DB RT 0.020  EARTH R 0 P 90 $\beta = 13$	LVLH R= 0.00 P=180.00 Y=270.00	-ZLV -YVV EOM Thermal Cond.
45 011/13:06:00 M 16:05  163/12:22:17 G 32:22	INRTL R = 285.00 MNVR P = 186.00 Y = 331.00 MNVR A1/AUTO/VERN HOLD (same)	RATE 0.2000 DB AT 1.000 DB RT 0.020  SUN R 136 P 123 $\beta = 10$	-Y:51 ATRIA (13:11-14:01) -Z:22 ALTAIR (13:06-13:50)	IMU ALIGN  Pair AOS-LOS 13:11-13:50
46 011/13:31:00 M 38:00  163/12:47:17 G 54:17	INRTL R = 163.00 MNVR P = 91.00 Y = 307.00 MNVR A1/AUTO/VERN HOLD (same)	RATE 0.2000 DB AT 1.000 DB RT 0.020  SUN R 321 P 164 $\beta = 10$	-Y:50 AVIOR (13:24-14:17) -Z:54 DIPHDA (13:25-14:15) Planar SEP:76.3	VERIFICATION  Pair AOS-LOS 13:25-14:15
47 011/13:48:00 M 58:06  163/13:04:17 G 14:23	TGT= 4 BV = 5 P = 184.00 Y = 0.00 OM = 270.00 MNVR A1/AUTO/VERN HOLD (same)	RATE 0.2000 DB AT 1.000 DB RT 0.020  SUN R 180 P 176 $\beta = 10$	INRTL R= 56.85 P=107.28 Y=291.70  RA= 79.848 DEC= 23.118N	-XSI
48 011/15:33:00 M 37:00  163/14:49:17 G 53:17	INRTL R = 13.00 MNVR P = 97.00 Y = 324.00 MNVR A1/AUTO/VERN HOLD (same)	RATE 0.2000 DB AT 1.000 DB RT 0.020  SUN R 90 P 150 $\beta = 10$		COMM
49 011/17:38:00 M 42:51  163/16:54:17 G 59:08	M50 (CALC) INRTL R = 76.00 MNVR P = 237.00 PYR Y = 25.00 MNVR TRN/AUTO/PRI HOLD (same)	RATE 0.5000 DB AT 3.50 DB RT 0.20  SUN R 348 P 53 $\beta = 9$	+X PYR R = 359.67 P = 196.06 Y = 359.73 LVLH 011/17:58:41 M 163/17:14:58 G	D/O BURN Retro Head Down Dual OMS TIG 17:58:41 KSC 185

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FLIGHT PLAN NOTES

FLIGHT PLAN NOTES  
(CONSTRAINTS AND GUIDELINES)

A. FLIGHT DESCRIPTION

Orbiter: OV105/Endeavour  
 Inclination: 51.6°  
 Beta Angle: +63° to +9°  
 Insertion Altitude: 122/210 nm  
 Duration: 12 + 0 + 2 days (8 docked)

B. CREW

UP:

CDR – Kenneth Cockrell  
 PLT – Paul Lockhart  
 MS1 – Philippe Perrin  
 MS2 – Franklin Chang-Diaz

MS3 (FE-1, Exp 5) – Peggy Whitson  
 MS4 (CDR, Exp 5) – Valeri Korzun  
 MS5 (FD-2, Exp 5) – Sergei Treschev

DOWN:

MS3 (FE-1, Exp 4) – Carl Walz  
 MS4 (FE-2, Exp 4) – Dan Bursch  
 MS5 (CDR, Exp 4) – Yuri Onufrienko

C. MAJOR EVENTS

<u>EVENT</u>	<u>MET</u>	<u>DATE</u>	<u>CDT</u>	<u>GMT</u>
Launch	00/00:00	05/31/02	18:16	151/23:16
OMS-2	00/00:39	05/31/02	18:55	151/23:55
NC1	00/03:36	05/31/02	21:52	152/02:52
NC2	00/16:55	06/01/02	11:11	152/16:11
NPC	00/21:02	06/01/02	15:18	152/20:18
NC3	01/01:45	06/01/02	20:01	153/01:01
NH	01/13:52	06/02/02	08:08	153/13:08
NC4	01/14:38	06/02/02	08:54	153/13:54
Ti	01/16:10	06/02/02	10:26	153/15:26
ISS Docking	01/18:31	06/02/02	12:47	153/17:47
ISS Ingress	01/19:55	06/02/02	14:11	153/19:11
MPLM Install on ISS	02/16:50	06/03/02	11:06	154/16:06
MPLM Ingress	03/00:45	06/03/02	19:01	155/00:01
EVA 1 (6.0 hr)	03/17:45	06/04/02	12:01	155/17:01
Reboost 1	04/23:30	06/05/02	17:46	156/22:46
EVA 2 (6.5 hr)	05/17:45	06/06/02	12:01	157/17:01
Reboost 2	06/15:45	06/07/02	10:01	158/15:01
EVA 3 (6.5 hr)	07/17:45	06/08/02	12:01	159/17:01
Reboost 3	08/15:40	06/09/02	09:56	160/14:56
MPLM Egress	08/16:15	06/09/02	10:31	160/15:31
MPLM Berth in STS	08/22:35	06/09/02	16:51	160/21:51
Undock	09/18:00	06/10/02	12:16	161/17:16
Sep	09/19:44	06/10/02	14:00	161/19:00
Deorbit	11/17:57	06/12/02	12:13	163/17:13
Landing	11/19:04	06/12/02	13:20	163/18:20

FLIGHT PLAN NOTES

## D. LANDING OPPORTUNITIES

		<u>Landing Orbit</u>		<u>CDT</u>	<u>MET</u>
		<u>No.</u>	<u>Site</u>		
Nominal	Primary	186	KSC	13:20	11/19:04
	1 Rev Late	187	KSC	14:56	11/20:40
	Weather Alt.	188	EDW	16:27	11/22:11
Nominal +1	Primary	201	KSC	12:20	12/18:04
	1 Rev Late	202	KSC	13:56	12/19:40
	Weather Alt.	203	EDW	15:27	12/21:11
Nominal +2	Primary	217	KSC	12:55	13/18:39
	1 Rev Late	218	KSC	14:32	13/20:16
	Weather Alt.	219	EDW	16:02	13/21:46

## E. COMMUNICATIONS

The Summary Timeline contains several data bands for ground site and TDRS events. The TDRS band reflects the three TDRS satellites that will be used for orbiter coverage (East, West, and Z) and their longitudinal position. The data shown contain Ku-band coverage (unshaded bars), as well as the TDRS SHO schedule (solid bars). The SHO schedule depicts early handovers and Z satellite coverage.

The RS band contains the AOS/LOS of the Russian ground sites used by the FGB and SM. The data displayed is a summation of the AOS/LOS times of all the ground sites on each respective pass.

### Shuttle

TDRS Support: East (47° W), West (171° W), Z (85° E)

NASA Sites (\*): MIL\*, DFR\*<sup>‡</sup>, and WLP\*<sup>‡</sup>

Air Force RTS: DGS, GTS, HTS, CTS, OTS\*, VTS, and NHS

#### \* UHF Capability

Lead time for site callup – 2 hr for GSTDN; 4 hr for RTS

‡ Support in emergency only

### ISS

TDRS Support: East (47° W), West (171° W), Z (85° E)

RSGA (\*): DJS, PPK, ULD, SHK, and USK

\* The Five Russian Remote Tracking Sites (RTSs) represent the available Regul SM Command Sites. During Docked Ops, the AOS/LOS of the sites are integrated into a single band on summary timeline tab data, but are displayed individually on the ISS detail timeline pages.

## F. PAYLOADS

### 1. LAUNCH PACKAGE (LP) UF-2

The LP for mission ISS-UF-2 consists of a Multipurpose Logistics Module (MPLM), a Mobile Remote Servicer (MRS) Base System (MBS), a Space Station Remote Manipulator System (SSRMS) Wrist Roll Joint (WRJ) on a Get Away Special Can beam, one Power and Data Grapple Fixture (PDGF) on an Increased Capacity Adaptive Payload Carrier (ICAPC) sidewall carrier, a set of six Service Module Debris Panel (SMDP) shields on a GAS Can beam, middeck (MDDK) payloads/stowage items, and crew rotation gear located in the shuttle MDDK.

The MPLM is manifested at the rear of the orbiter payload bay with the MPLM berthing mechanism facing forward. On orbit, a Remotely Operated Electrical Umbilical (ROEU) will provide electrical power to the MPLM shell heaters. After the Payload Bay Door (PLBD) opening, avionics will be activated on the MPLM to monitor temperatures and pressures.

The MBS is manifested in the midsection of the payload bay, forward of the MPLM and aft of the Orbiter Docking System (ODS).

The ICAPC beam will be manifested in Bay 13, port side, for carrying the PDGF. The PDGF will be attached to the P6 truss via Extravehicular Activity (EVA).

The GAS Can beam will be manifested in Bay 13, starboard side, for carrying the SMDP shields, with the Transportation Device Kit (TDK). The SMDP will be temporarily stowed on the Pressurized Mating Adapter-1 (PMA-1) via EVA and moved to the Service Module (SM) during the stage. The TDK will remain in the orbiter.

Two Assembly Power Converter Units (APCUs) with interconnect cabling and mounting brackets will be also be manifested.

## G. TRANSFER PAYLOADS

### 1. MPLM TRANSFER ITEMS:

<u>Name</u>	<u>No.</u>
Resupply Return Stowage Rack (RSR)	8
Resupply Stowage Platform (RSP)	4
International Standard Payload Rack (ISPR)	2
Expedite the Processing of Experiments to the Space Station (EXPRESS) Rack No. 3	1
Microgravity Science Glovebox (MSG)	1
Shuttle Lithium Hydroxide (LiOH) Canisters	26 (8 Transferred to ISS)

### 2. MDDK TRANSFER ITEMS:

<u>Name</u>
Biomass Production System (BPS)
KSC Gaseous Nitrogen Freezer (KSC GN2 FREEZER)
Commercial Generic Bioprocessing Apparatus – 3 (CGBA-3)
Commercial Protein Crystal Growth – High Density – 1 (CPCG-H-1)
Protein Crystal Growth – Single Locker Thermal Enclosure System (PCG-STES 009)
STELSYS Commercial Refrigeration Incubator Module (CRIM) Contents

## H. IN-FLIGHT DETAILED TEST OBJECTIVES (DTOs)

### 1. BIOTECHNOLOGY WATER TREATMENT SYSTEM (BWTS) (DTO 694)

The purpose of this DTO is to evaluate the overall performance and procedures of the BWTS. Twelve separate samples will be taken: 11 samples that have been processed by the BWTS and 1 unprocessed sample. These 12 samples may be taken all in one session or in two or three separate sessions. However, setup and stow must be performed for each session.

### 2. SINGLE STRING GLOBAL POSITIONING SYSTEM (DTO 700-14)

The purpose of this DTO is to demonstrate the performance and operation of the Global Positioning System (GPS) during all phases of the flight with the modified military receiver and Endeavour's existing antennae. The crew's involvement is limited to activation and deactivation only, unless the PGSC is required for data recording due to LOS.

### 3. CROSSWIND LANDING PERFORMANCE (DTO OF OPPORTUNITY) (DTO 805)

The purpose of this DTO of opportunity is to demonstrate the capability to perform a manually controlled landing in the presence of a crosswind. This DTO will be performed only if there is a steady state 90° crosswind component of 10 to 15 knots.

#### I. DETAILED SUPPLEMENTAL OBJECTIVES (DSOs)

##### IN-FLIGHT:

##### 1. SLEEP/WAKE ACTIGRAPHY AND LIGHT EXPOSURE DURING SPACE FLIGHT (DSO 634)

The purpose of this DSO is to monitor sleep-wake activity and light exposure patterns obtained in-flight using state of the art ambulatory technology. The crew is required to wear an actilight watch (to record their lighting cycles) and must fill out a sleep log within 15 min of final awakening every morning.

##### PRE/POST FLIGHT ONLY:

##### 1. INDIVIDUAL SUSCEPTIBILITY TO POST-SPACEFLIGHT ORTHOSTATIC INTOLERANCE (DSO 496)

The purpose of this DSO is to try to illuminate pre- and post-flight differences in orthostatic hypotension susceptible and non-susceptible astronauts. This DSO has no in-flight activities.

##### 2. SPACE FLIGHT AND IMMUNE FUNCTION (DSO 498)

The purpose of this DSO is to characterize the effects of space flight on certain immune element cells that are important in maintaining an effective defense against infectious agents. This DSO has no in-flight activities.

##### 3. EYE MOVEMENTS AND MOTION PERCEPTION INDUCED BY OFF-VERTICAL AXIS ROTATION (OVAR) (DSO 499)

The purpose of this DSO is to examine changes in spatial neural processing of gravitational tilt information following adaptation to microgravity. This DSO has no in-flight activities.

##### 4. SPACE FLIGHT-INDUCED REACTIVATION OF LATENT EPSTEIN-BARR VIRUS (DSO 500)

The purpose of this DSO is to study and determine the magnitude of immunosuppression as a result of prolonged microgravity. This DSO has no in-flight activities.

##### 5. TEST OF MIDODRINE AS A COUNTERMEASURE AGAINST POSTFLIGHT ORTHOSTATIC HYPOTENSION (DSO 503-S)

The purpose of this DSO is to evaluate a new pharmacological countermeasure for protection against post-flight orthostatic hypotension. This DSO has no in-flight activities.

##### 6. SPACIAL REORIENTATION FOLLOWING SPACE FLIGHT (DSO 635)

The purpose of this DSO is to examine adaptive changes in the spatial reference frame used for coding spatial orientation and sensorimotor control resulting from short-duration space flight. This DSO will also examine the fragility of the adaptive process and the feasibility of driving state changes in central vestibular processing. This DSO has no in-flight activities.



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FLIGHT PLAN WALKTHROUGH WITH RATIONALE

FLIGHT PLAN  
WALKTHROUGH

**Station Activities Performed Prior to Shuttle Docking**

- CBCS C/O
- BSA BATT recharge, SAFER C/O
- EVA Tool Prep
- SAFER Checkout, SAFER Batt Changeout
- SSRMS Digital Accuracy/Reliability/Calibration test
- Prep for MPLM install including transfer tagups and list reviews
- Pre-pack Items for Return
- UF2 Timeline Review.

**Flight Day 01**

- Standard FD01 activities.
- NC1 is scheduled.
- Setup completed for PGSCs (OCA Setup, PGSC Network Setup, Color Printer Assemble and Unstow).
- Photo/TV 17 Video Setup completed. This activity sets up all standard use cameras that will be utilized throughout the flight, including SSV Setup.
- APCU 2 is activated to support the MPLM Environment Checks. APCU 1 and 2 output relays are closed and the APCU 2 converter is powered on. With the APCU 2 output relay closed and the OIU activated, the ground team can partially activate the MPLM to monitor the MPLM environment. The MPLM data will be monitored as much as possible during the flight depending on which TFL is loaded (not all TFLs contain the MPLM data).
- Don Actilight Watches used for DSO 634.
- Status of the MDDK powered payloads verified. This activity will continue twice a day throughout the flight.
- Ascent video is downlinked.

**Flight Day 02**

- Ergometer setup
- Checkout of the two EMUs on shuttle, and other EVA setup and config tasks, including A/L Prep and EMU Prep for Transfer in support of EVA 1 on FD05. The two EMUs will be used to support EVAs during the docked mission.
- The SRMS is checked out and a payload bay survey is conducted.
- Rendezvous prep activities including Rendezvous PGSC Setup, Photo/TV20 and Rendezvous Tools Checkout, Centerline Camera Install, and Orbiter Docking System (ODS) Ring Extension are performed. Rendezvous burns NC-2, NPC, and NC-3 are scheduled.
- MPLM heater is activated early in the day and deactivated late for monitoring as mentioned above in FD01. This is a daily routine until unberth on FD04.
- DTO 700-14 MAGR PGSC is unstowed and set up to support orbit operations.
- GPS OPS 2 Test is performed.
- Dailly Log is recorded in Post Sleep. This will continue throughout the mission.
- CDR and MS2 hold a Public Affairs Office (PAO) Event for the celebration of MS2's seventh flight in space.
- Sleep (7 hr) is at MET 01/05:00, one hour earlier than on launch day to shift the crew and allow them enough time on FD03 to work through the entire Rendezvous procedure without losing postsleep.

**Flight Day 03**

- A supply/waste (SIMO) water dump is performed as close to docking as possible to minimize the amount of wastewater dumped during the docked mission. FDO would like this dump to be scheduled as close to the first rendezvous burn as possible to minimize trajectory dispersions. The maneuver for the dump has been future loaded on FD02.
- The EMUs are removed from the airlock and temp stowed prior to docking to facilitate Pressurized Mating Adapter (PMA) access/transfers after docking.
- The orbiter will dock with the ISS on daily orbit 2. Docking is not required to occur over a Russian

Ground Site. There are no lighting constraints. After docking, a leak check will be performed on the ODS and hatches will be opened.

- The shuttle will then maneuver the stack into the nominal docking attitude after damping rates. Once in attitude, attitude control will be handed over to ISS. ISS will maintain attitude control during the entire docked timeframe using the Lab Control Moment Gyros (CMGs). However, it is assumed that if shuttle has the prop, they will perform any maneuvers that may be required and reboosts as propellant is available.
- After hatch opening and welcome ceremonies, transfer and handover time are CAT 1 priorities.
- The PGSC network is reconfigured from the rendezvous configuration after docking. ISS audio config is performed.
- FE-1 Expedition 4 (Walz) and FE-2 Expedition 5 (Treschev) swap out IELKs (Russian Soyuz Seat Liners) in the evening of FD03. When this is completed, Walz is considered an STS crewmember and Treschev is considered an ISS crewmember. The remaining Expedition 5 IELKs will be temporarily stowed in the ISS until they are installed on FD04. A crewmember is not considered transferred until the IELK Installation and Checkout is completed. This first rotation is done on FD03 since Walz is needed during FD04 to help with MPLM Vestibule Pressurization and Config for Ingress, and rotating all three crewmembers on FD04 would not allow him to assist in the MPLM tasks.
- Shuttle MDDK transfers begin.
- CDR Expedition 4 (Onufrienko) and CDR Expedition 5 (Korzun) will spend the evening of FD03 handing over, the first scheduled block of handover time.
- P/TV16 CBCS C/O is performed concurrently with specific N1CBCS Inst/Rmv steps. The CBCS (centerline camera) was installed on the Node Nadir hatch window in preparation for the MPLM install prior to docking.
- To facilitate EVA tasks that need to be completed before EVA 1 on FD05, the EMUs are transferred to the ISS A/L, the LTA strap is removed, the EMU interface with the airlock is checked out, the REBA batteries are installed into the EMUs and checked out, MS1 resizes his EMU as necessary with parts from ISS, and an EVA Tool Setup and transfer to the ISS crew lock is performed. P/TV18 Wireless Video Setup is completed. MS5 performs a SOKOL Leak Check and Suit Dry.
- STELSYS is the first of the MDDK powered payloads to be transferred to ISS. KSC GN2 freezer and CPCG-H are also transferred from the ISS to the orbiter.
- ISS SVS Survey is performed overnight by the ground.

#### **Flight Day 04**

- Through the preceding sleep period the ground performs some CBM operations to check out the PORT and NADIR CBMs. This is in preparation for the MPLM transfer. The crew opens the petals for the NADIR CBM as early as possible prior to unberth.
- After postsleep, the SRMS is powered up and an ACBM Seal Inspection with the SRMS end effector camera is performed. This ensures that no debris exists on the ACBM to hinder the installation of the MPLM. The SRMS then grapples the MPLM in preparation for unberth. P/TV 22 films the action from the SRMS camera.
- Just prior to unberth, the MPLM environment is checked via OIU and the Remotely Operated Electrical Umbilical (ROEU) is disconnected. Once ROEU disconnect is complete, the MPLM can be unberthed from the payload bay and installed onto the ISS. The STS CDR is the SRMS Prime Operator and MS1 is the SRMS Backup Operator.
- A Russian PAO event is scheduled for the three Russian Expedition crewmembers.
- After MPLM Installation is complete, the bolts for the CBM are driven. Bolt loading must be completed before the Vestibule can be pressurized. During this time the CBCS Camera System is removed and the MPLM Vestibule Equipment needed for Vestibule Config for Ingress will be set up.
- FE-2 Expedition 4 (Bursch) and FE-1 Expedition 5 (Whitson) swap out IELKs (Russian Soyuz Seat Liners) in the morning of FD04. When this is completed Bursch is considered an STS crewmember and Whitson is considered an ISS crewmember. This second rotation is done first thing on FD04 since Whitson is needed during the day to help with MPLM Vestibule Pressurization and Config for Ingress, and rotating Whitson later on FD04 would not allow her to assist in the MPLM tasks.
- CDR Expedition 4 (Onufrienko) and CDR Expedition 5 (Korzun) swap out IELKs (Russian Soyuz Seat Liners), which completes crew rotation.

- Lower Body Negative Pressure (LBNP) task scheduled for Onufrienko (first of three).
- After the midday meal the STS and ISS crew hold a 1 hr EVA 1 Procedure Review.
- Collapsible Water Container (CWC) fill setup is performed followed by CWC Fill #1 and Fill #2 for transfer to the ISS late in the day. Eight filled CWCs will be transferred to the ISS by the end of the docked timeframe.
- Payload Water Reservoir (PWR) #1 is filled and transferred.
- Walz and Whitson continue through the latter half of FD04 with Vestibule Config for Ingress, MPLM Activation Part I and Part II are completed, and finally the MPLM Ingress is performed at the end of the day and MPLM transfers begin. P/TV21 Setup & Ops in the ISS is for MPLM ingress.
- CGBA and BPS powered transfers from ISS to orbiter are completed this day, as well as PCG-STES powered transfer from orbiter to ISS.
- Pistol Grip Tools (PGT) checkout, EVA 1 Tool config, and Equipment Lock Prep completed in preparation for EVA 1.
- Transfer of N2 from the orbiter to the Airlock High Pressure Gas Tanks (HPGT) will be initiated on FD04, termination of the transfer will be performed real-time on a subsequent flight day.
- One Expedition 4 crewmember and two Expedition 5 crewmembers participate in a US PAO event.
- Express Rack 3 Transfer and associated video recording of the event is scheduled.

### **Flight Day 05**

- The ISS Exercise EVA protocol will be used to support the EVA. The two EVA crewmembers will perform the required 10 min Cycle/Ergometer Vibration Isolation System (CVIS) exercise while breathing pure O2 to purge N2 from the EVA crewmember's blood. IV crewmembers will ingress the ISS Airlock with the two EVA crewmembers and close the Node hatch. The EVA crewmembers will continue to prebreathe pure O2 for a total of 80 min. The last 30 min of this time will include a 30 min Airlock depress to 10.2 psi. The EVA crew will then doff the O2 mask and don the EMU. The EMUs are then purged with pure O2 and the Airlock will be repressurized to 14.7. The Node hatch may then be opened. The EVA crewmembers will then perform a 60 min in-suit prebreathe followed by Crewlock hatch closing, Crewlock depress, and finally Post Depressurization where the EVA crew will go off the Service and Cooling Umbilical (SCU) and the Phase Elapse Time (PET) clock starts counting. Crewlock Depress will utilize the depress pump down to 1.5 psi. At 3 psi, the Crewlock valves will be opened to vacuum.
- Photo/TV23 EVA Setup for viewing the EVA using orbiter cameras.
- Once airlock depress is complete, EVA crewmembers egress and begin EVA setup.
- EVA Activities (the SSRMS will be used for worksite access during the EVA. The SRMS will be used for acquiring EVA video):
  - One hr after egressing the Airlock, the EV crew will begin by removing the Power and Data Grapple Fixture (PDGF) from the sidewall carrier in the PLB. The PDGF and EV1 are maneuvered to P6 onboard the SSRMS, where the PDGF will be installed.
  - Next the Service Module Debris Panel (SMDP) Shields are removed from the sidewall carrier in the PLB. Using the SSRMS, the SMDP shields are maneuvered to PMA1, where they will be stowed by the EV crew.
  - After the SMDP Shields are stowed, the SRMS maneuvers up to the Mobile Remote Servicer (MRS) Base System (MBS) installation position. This position will allow the ground to view the MBS checkout that will be performed overnight.
  - Once the EVA tasks no longer require the SSRMS, it maneuvers to the MBS and grapples. Once grappled, the SSRMS applies keep-alive power to ensure it has the capability to power up the MBS before the EV crew removes the thermal blankets.
  - Once keep-alive power is confirmed, the EV crew removes the thermal blankets and the MBS is ready to be unberthed. The EV crew completes EVA 1 tasks with cleanup.
- Once the EV crew is clear of the MBS, Whitson and Walz unberth the MBS from the PLB and maneuver it to the preinstall position. It is left in this overnight park position. The ground performs checkouts after the MBS is taken from keep-alive to operational power.
- Once the EV crewmembers have completed sortie cleanup they ingress the ISS Crew Lock and perform Prerepress (EVA crew back on SCU and EVA complete), close the EVA hatch, and repress the Crewlock. Post EVA procedures are developed to begin preparation for cleanup after the EVA (suit

doff, water recharge, etc.) and to begin preparation activities for the next EVA (battery charge initiate, etc.). All crewmembers not participating in the EVA activities are scheduled for H/O if their counterpart is available; otherwise, transfer of MPLM logistics to the ISS. CWC Fill #3 and Fill #4 are filled and are transferred to the ISS.

- A TV routing check will be performed to assure that orbiter video is properly routed to the ISS. The orbiter video (P/TV22 Ops) will be used to assist the SSRMS operators with MBS Unberth and Installation tasks.

### **Flight Day 06**

- On the morning of FD06 the MBS mating surfaces have had a chance to equilibrate overnight. MBS is attached to the Mobile Transporter (MT) and the capture latch is closed, which completes the installation process. The MBS Install will be viewed (P/TV22).
- O2 Transfer Setup for High Pressure Tank (HPT) transfers.
- Shuttle mid mission reconfigurations are completed.
- CWC #5 and #6, and Payload Water Reservoir (PWR) #2 fills are completed and transferred.
- MSG Transfer is scheduled.
- Three PAO Events including a CNES event with STS CDR and MS1, the change of command ceremony for all crewmembers, and a US event with the PLT, MS2, EXP4 FE-2, and EXP5 FE-1.
- A majority of the MPLM logistics transfers to the ISS are scheduled this day.
- After the midday meal, the STS and ISS crew hold a 1 hr EVA 2 Procedure Review.
- Preparations for EVA 2, including REBA Install, METOX, SAFER C/O Equipment Lock Preparation, EVA F5, EVA 2 Tool Config, and BSA battery charge term.
- Attitude control will be handed over to the shuttle and a PRCS +X with vernier pitch control (Config 4) reboost will be performed. After completion of the reboost, attitude control will be handed back to the ISS.

### **Flight Day 07**

- The second EVA is performed. See the FD05 explanation of pre and post EVA activities. There is no SSRMS support required for EVA 2, with the exception of the SSRMS repositioning at the end of the EVA. The EVA specific tasks are:
  - Install the Primary and Redundant String Video/Data Cables for the MBS.
  - Connect the Primary String Power Umbilicals to allow the MBS to be powered by the MT and the ground performs a checkout of the primary power to ensure all connections are complete.
  - Connect the Redundant String Power Umbilicals.
  - Deploy the POA.
  - Fasten all four MBS bolts to the MT.
  - MBS Camera Deploy.
  - MBS Cable Install.
- Attitude control is handed over to the shuttle and a supply/waste (SIMO) water dump in the morning. After the dump, control will be handed back to the ISS.
- Expedition crewmembers continue Handover Ops.
- Photo/TV23 EVA Setup for viewing the EVA using the shuttle cameras.
- Status of the powered payloads verified including BPS Data dump.
- ISS SVS Survey performed overnight by the ground.

### **Flight Day 08**

- Attitude control handed over to the shuttle and a PRCS +X with vernier pitch control (Config 4) reboost performed. After completion of the reboost, the shuttle performs a supply water dump and two PWR dumps. When the dump is complete, attitude control will be handed back to the ISS.
- CWC #8 and PWR #3 will be filled and transferred to the ISS prior to presleep.
- Transfer of O2 from the orbiter to the Airlock High Pressure Gas Tank (HPGT) and Low Pressure Gas Tank (LPGT) is scheduled this day. Logistics stowed in the ISS will be transferred and packed in the MPLM.

- EVA Preparations for EVA include EVA F5, REBAS Install, SAFER C/O, METOX, Equipment Lock Prep, EVA 3 Tool Config, and EVA Procedure Review.
- Today is Crew Photo and Crew Conference Day for both crews.
- MPLM transfers continue.
- ISS Survey is performed overnight by the ground.

### **Flight Day 09**

- LBNP task is scheduled for Onufrienko (second of three).
- The third EVA is performed. See the FD05 explanation of pre- and post-EVA activities. SSRMS is used for EVA support. Primary EVA task is:
  - Replace the SSRMS Wrist Roll Joint.
- SSRMS is used for P/TV support.
- Expedition crew continues handover/transfer.
- BPS Data dump to ground.
- The CBM CPA Installation occurs at the end of the day, allowing the ground to do a complete checkout overnight in preparation for the MPLM Uninstall on FD09.
- SSRMS is repositioned to ensure safe translation path for the MPLM berth.

### **Flight Day 10**

- Attitude control will be handed over to the shuttle and a control (Config 3) reboost performed. After completion of the reboost, the shuttle performs a supply water dump and dumps the residual of the final PWR that was consumed on EVA 3. When the dump is complete, attitude control will be handed back to the ISS.
- EMU Resize performed to leave Whitson an EMU onboard ISS. The EMU will be prepped for transfer as well.
- EVA Tool Transfer brings tools back to the orbiter that need to return home with the orbiter.
- Rendezvous PGSC Setup, Tools Checkout, and Photo/TV20 Rendezvous Setup completed to support undock on FD11.
- Final transfer of logistics stowed in the ISS will be transferred and packed in the MPLM.
- O2 HPT and N2 Setup, transfer, tear down.
- PWR Fill #4 and Fill #5 performed. All four PWRs are transferred to the ISS A/L.
- Photo/TV22 RMS Setup is performed to view the uninstall and berth of the MPLM.
- Walz and Whitson perform MPLM Egress (P/TV21), Deactivation, and Vestibule Configuration for Demate and Vestibule Depress as the SRMS grapples the MPLM. Walz and Whitson then perform Node 1 Nadir CBM Demate and the SRMS uninstalls the MPLM from the ISS and berths it into the PLB. The MPLM heaters are activated and an environment check is performed to determine the status of the MPLM.
- Expedition crewmembers continue Handover Ops.
- LBNP task scheduled for Onufrienko (third of three).
- FE-2 EXP5 performs a sampling of the LTL and MTL ITCS cooling loops.
- PAO Event for MS1, MS2.
- Overnight ISS Survey by the ground.

### **Flight Day 11**

- Remaining logistics transferred between the ISS and shuttle. The EMU is transferred.
- ISS and STS crews bid Farewell, close the hatch between vehicles, and perform an ODS leak check. Centerline camera installed.
- P/TV20 Rendezvous Setup to view undocking and flyaround.
- Bursch performs BPS Data.
- MPLM Heater act for environment Check.
- Undock is at SS+10 min. One rev flyaround and sep are performed.
- Undock config: PGSCs, cameras, comm, power etc. reconfigured.
- SSOR Deact.
- SIMO water dump performed later in the day after undock.

- Approximately one half day of off-duty is scheduled for all crewmembers.
- Private Family Conferences scheduled for each crewmember after undocking.
- Comm switched to comm string 1.

### **Flight Day 12**

- FCS C/O, RCS Hotfire, PILOT Ops, Deorbit Briefing.
- MPLM Heaters activated again for environment check.
- L-1 Comm checks for MILA and Dryden.
- Cabin Stow.
- US PAO Event for the three Expedition 4 crewmembers on the eve of their return.
- Launch/Entry Suit Check for the three Expedition 4 crewmembers with MS1 assisting.
- Recumbent seat setup on the middeck for the Expedition 4 crewmembers with MS1 assisting.
- Post EVA Entry Prep (PEEP).
- FES dump.
- Entry Video Setup (P/TV05).
- Ergometer stowed.
- Ku stowed.
- PGSC Part I Stowage, stowing PGSCs not needed for MFX on entry morning.
- Comm switched back to Comm string 2.
- Approximately one half day of off-duty is scheduled for shuttle crewmembers.

### **Flight Day 13**

- Standard Entry Day activities, including IMU align, GIRA stow, TPEC stow, Air Sample, OCAC Stow, OIU Deact, H2O Tank reconfig, and mnvr to XSI.
- MPLM heaters activated for environment check.
- Stow Actilight Watches used for DSO 634 after final log.
- DTO 700-14 is reconfigured for entry.
- SSVS Deact (P/TV06).
- BPS H2O Removal and Descent.
- PGSC Part II Stowage. Color printer stowed.
- Deorbit Prep and landing at KSC.



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DAP BOOK CONFIGURATION

DAP BOOK  
CONFIGURATION



TOP

<u>DAP</u>	<u>PURPOSE</u>	<u>DAP</u>	<u>PURPOSE</u>
A1	- NOMINAL	B1	- NOM OMS RCS BURNS
A2	- PTC	B2	- LOSS OF VERN (TAIL ONLY)
A3	- GG	B3	- LOSS OF VERN (ALL)
A4	-	B4	-
A5	- LOSS OF VERN (ALL)	B5	- COAS/HUD CAL
A6	- LOSS OF VERN (TAIL ONLY)	B6	-
A7	- RENDEZVOUS	B7	- RENDEZVOUS
A8	- TERMINAL PHASE	B8	- TERMINAL PHASE
A9	- PROX OPS/FLYAROUND	B9	- PROX OPS/FLYAROUND
A10	- DOCKING	B10	- DOCKING
A11	- AUTO REBOOST	B11	-
A12	- MATED MNVRS & HOLD (VRCS)	B12	- MATED MNVRS & HOLD (PRCS)
A13	- A/L DEPRESS ATTITUDE CONTROL	B13	- A/L DEPRESS RATE DAMPING
A14	-	B14	-
A15	-	B15	-

- CNTL ACC = 0 UNLOADED RMS
- = 1 VRCS MATED CONTROL
- = 2 ALT PRCS MATED CONTROL
- = 3 A/L DEPRESS VRCS MATED CONTROL
- = 4 A/L DEPRESS ALT PRCS MATED CONTROL
- = 5-9 NOT USED



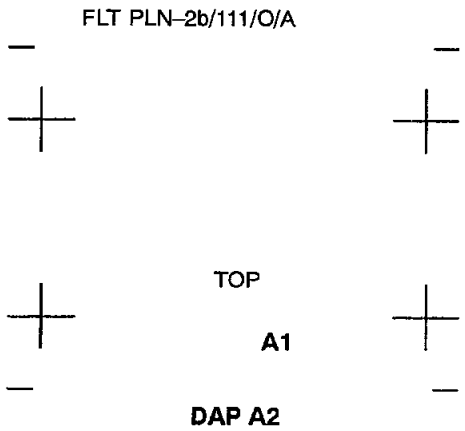
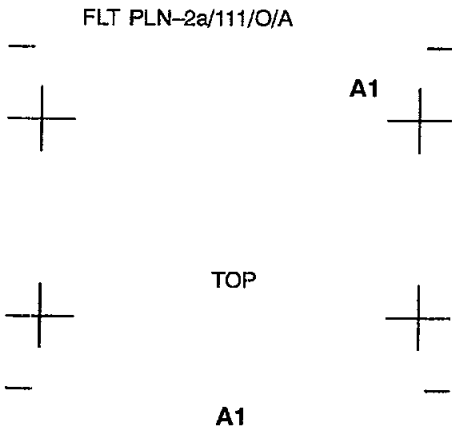
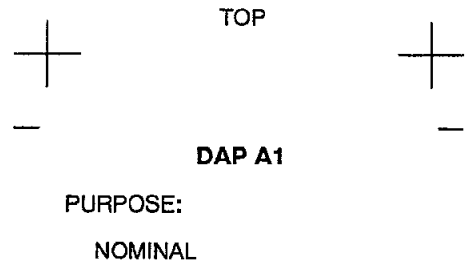
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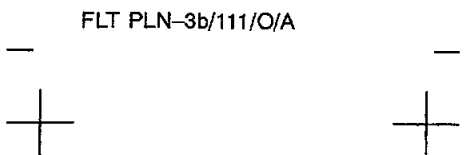
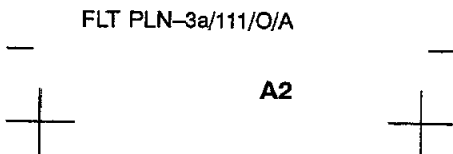
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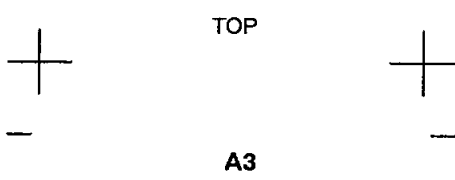
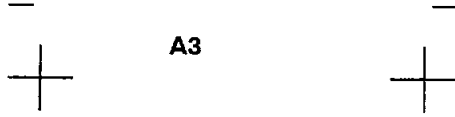


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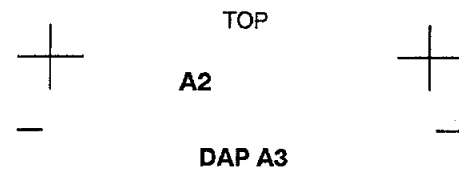
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FLT PLN-4a/111/O/A



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FLT PLN-5a/111/O/A



PURPOSE:  
GG

FLT PLN-4b/111/O/A



DAP A4

FLT PLN-5b/111/O/B



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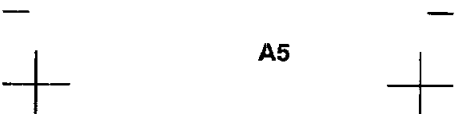
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FLT PLN-6a/111/O/A



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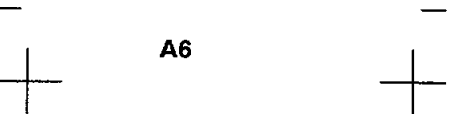


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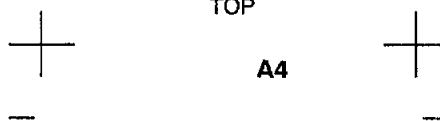
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A6



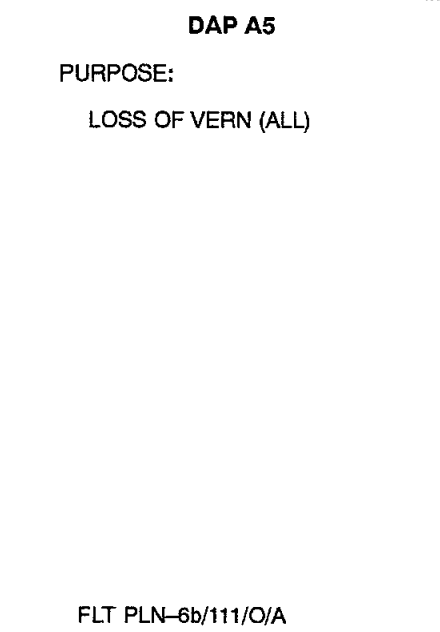
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A4

DAP A5

PURPOSE:  
LOSS OF VERN (ALL)



FLT PLN-6b/111/O/A

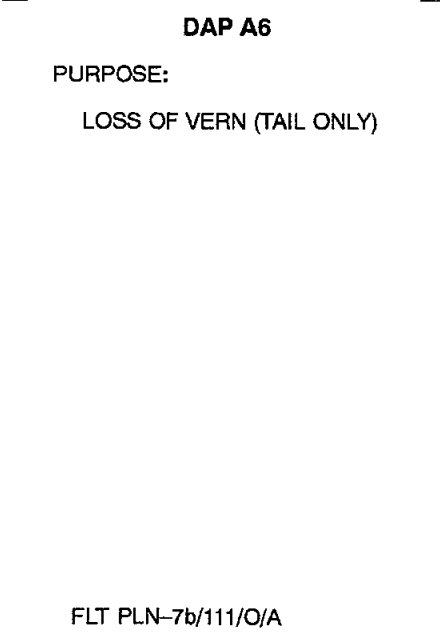


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A5

DAP A6

PURPOSE:  
LOSS OF VERN (TAIL ONLY)



FLT PLN-7b/111/O/A

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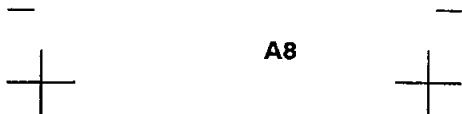
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FLT PLN-8a/111/O/A

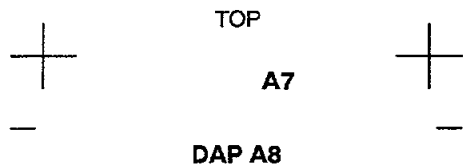
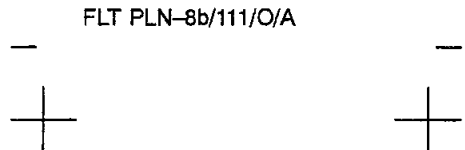


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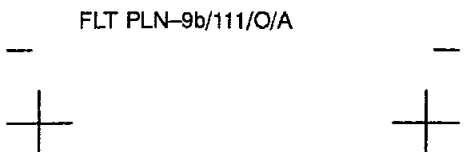
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PURPOSE:  
RENDEZVOUS



PURPOSE:  
TERMINAL PHASE



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TOP

**A8**

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0.0 5 0	26/66	ROT PLS
.0 0 0	27/67	COMP
0	28/68	CNTL ACC

FLT PLN-10a/111/O/A



**A9**



TOP

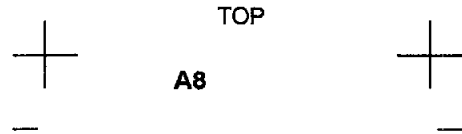
**A9**

DAP A 0 9	1	PRI
0.1 3 0 0	10/50	ROT RATE
- 1.0 0	11/51	ATT DB
0.1 0	12/52	RATE DB
0.1 0	13/53	ROT PLS
0.0 0	14/54	COMP
TAIL	15/55	P OPTION
TAIL	16/56	Y OPTION
0.0 5	17/57	TRAN PLS
		ALT
0.1 0 0	18/58	RATE DB
TAIL	19/59	JET OPT
2	20/60	#JETS
0.0 8	21/61	ON TIME
0.0 0	22/62	DELAY
		VERN
0.1 3 0 0	23/63	ROT RATE
- 1.0 0 0	24/64	ATT DB
.0 2 0	25/65	RATE DB
0.0 5 0	26/66	ROT PLS
.0 0 0	27/67	COMP
0	28/68	CNTL ACC

FLT PLN-11a/111/O/A



**A10**

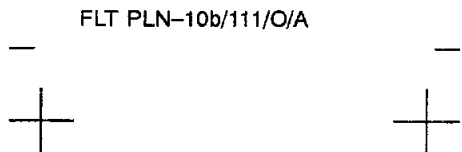


TOP

**A8**

**DAP A9**

PURPOSE:  
PROX OPS/FLYAROUND



FLT PLN-10b/111/O/A

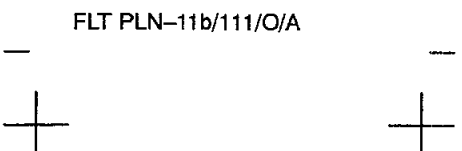


TOP

**A9**

**DAP A10**

PURPOSE:  
DOCKING



FLT PLN-11b/111/O/A

(reduced copy)





TOP

A10

DAP A 1 0	1	PRI
0.0 5 0 0	10/50	ROT RATE
0.5 0	11/51	ATT DB
0.1 0	12/52	RATE DB
0.1 0	13/53	ROT PLS
.0 0 0	14/54	COMP
TAIL	15/55	P OPTION
TAIL	16/56	Y OPTION
0.0 5	17/57	TRAN PLS
		ALT
0.1 0 0	18/58	RATE DB
TAIL	19/59	JET OPT
2	20/60	#JETS
0.0 8	21/61	ON TIME
0.0 0	22/62	DELAY
		VERN
0.0 5 0 0	23/63	ROT RATE
-0.5 0 0	24/64	ATT DB
.0 2 0	25/65	RATE DB
0.0 5 0	26/66	ROT PLS
.0 0 0	27/67	COMP
0	28/68	CNTL ACC

FLT PLN-12a/111/O/A



A11



TOP

A11

DAP A 1 1	1	PRI
0.1 0 0 0	10/50	ROT RATE
1.5 0 0	11/51	ATT DB
0.2 0	12/52	RATE DB
0.1 0	13/53	ROT PLS
.0 0 0	14/54	COMP
TAIL	15/55	P OPTION
TAIL	16/56	Y OPTION
0.1 0	17/57	TRAN PLS
		ALT
0.0 7 0	18/58	RATE DB
TAIL	19/59	JET OPT
3	20/60	#JETS
0.0 8	21/61	ON TIME
1.2 0 0	22/62	DELAY
		VERN
0.1 0 0 0	23/63	ROT RATE
-5.0 0 0	24/64	ATT DB
.0 5 0	25/65	RATE DB
0.0 1 0	26/66	ROT PLS
.0 0 0	27/67	COMP
1.2	28/68	CNTL ACC

FLT PLN-13a/111/O/A



A12

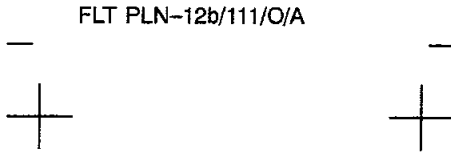


TOP

A10

DAP A11

PURPOSE:  
AUTO REBOOST



FLT PLN-12b/111/O/A



TOP

A11

DAP A12

PURPOSE:  
MATED MNVRS & HOLD  
(VRCS)



FLT PLN-13b/111/O/A

(reduced copy)



TOP



A12

DAP A 1 2	1	PRI
0.1 0 0 0	10/50	ROT RATE
- 5.0 0	11/51	ATT DB
0.2 0	12/52	RATE DB
0.0 4	13/53	ROT PLS
.0 0 0	14/54	COMP
TAIL	15/55	P OPTION
TAIL	16/56	Y OPTION
0.0 1	17/57	TRAN PLS
		ALT
0.0 7 0	18/58	RATE DB
TAIL	19/59	JET OPT
3	20/60	#JETS
0.0 8	21/61	ON TIME
1 1.0 4	22/62	DELAY
		VERN
0.1 0 0 0	23/63	ROT RATE
- 3.0 0 0	24/64	ATT DB
.0 5 0	25/65	RATE DB
0.0 0 2	26/66	ROT PLS
.0 0 0	27/67	COMP
1	28/68	CNTL ACC

FLT PLN-14a/111/O/A



A13



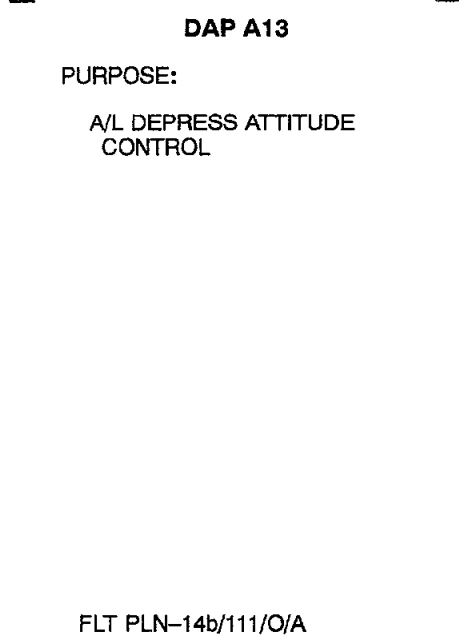
TOP



A12

DAP A13

PURPOSE:  
A/L DEPRESS ATTITUDE CONTROL



FLT PLN-14b/111/O/A



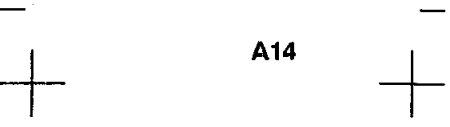
TOP



A13

DAP A 1 3	1	PRI
0.1 0 0 0	10/50	ROT RATE
- 5.0 0	11/51	ATT DB
0.2 0	12/52	RATE DB
0.0 4	13/53	ROT PLS
.0 0 0	14/54	COMP
TAIL	15/55	P OPTION
TAIL	16/56	Y OPTION
0.0 1	17/57	TRAN PLS
		ALT
0.0 7 0	18/58	RATE DB
TAIL	19/59	JET OPT
3	20/60	#JETS
0.0 8	21/61	ON TIME
1 1.0 4	22/62	DELAY
		VERN
0.1 0 0 0	23/63	ROT RATE
- 3.0 0 0	24/64	ATT DB
.0 8 0	25/65	RATE DB
0.0 0 2	26/66	ROT PLS
.0 0 0	27/67	COMP
3.4	28/68	CNTL ACC

FLT PLN-15a/111/O/A



A14



TOP



A13

DAP A14

PURPOSE:



FLT PLN-15b/111/O/A



(reduced copy)

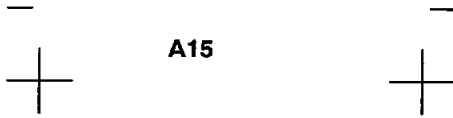


TOP

**A14**

DAP A 1 4 1 PRI  
 0.2 0 0 0 10/50 ROT RATE  
 - 5.0 0 0 11/51 ATT DB  
 0.2 0 12/52 RATE DB  
 0.1 0 13/53 ROT PLS  
 .0 0 0 14/54 COMP  
 ALL 15/55 P OPTION  
 ALL 16/56 Y OPTION  
 0.1 0 17/57 TRAN PLS  
 ALT  
 0.2 0 0 18/58 RATE DB  
 ALL 19/59 JET OPT  
 2 20/60 #JETS  
 0.0 8 21/61 ON TIME  
 0.0 0 22/62 DELAY  
 VERN  
 0.2 0 0 0 23/63 ROT RATE  
 - 1.0 0 0 24/64 ATT DB  
 .0 2 0 25/65 RATE DB  
 0.0 1 0 26/66 ROT PLS  
 .0 0 0 27/67 COMP  
 0 28/68 CNTL ACC

FLT PLN-16a/111/O/A



**A15**



TOP

**A15**

DAP A 1 5 1 PRI  
 0.1 0 0 0 10/50 ROT RATE  
 4 0 0 0 11/51 ATT DB  
 0.2 0 12/52 RATE DB  
 0.0 0 3 13/53 ROT PLS  
 .0 0 0 14/54 COMP  
 TAIL 15/55 P OPTION  
 TAIL 16/56 Y OPTION  
 0.0 1 17/57 TRAN PLS  
 ALT  
 0.2 0 0 18/58 RATE DB  
 TAIL 19/59 JET OPT  
 2 20/60 #JETS  
 0.0 8 21/61 ON TIME  
 0.0 0 22/62 DELAY  
 VERN  
 0.0 2 0 0 23/63 ROT RATE  
 - 5.0 0 0 24/64 ATT DB  
 .0 5 0 25/65 RATE DB  
 0.0 0 1 26/66 ROT PLS  
 .0 0 0 27/67 COMP  
 7 28/68 CNTL ACC

FLT PLN-17a/111/O/A

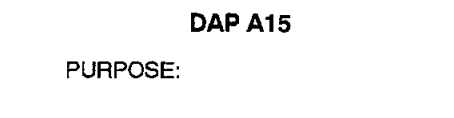


TOP

**A14**

**DAP A15**

PURPOSE:



FLT PLN-16b/111/O/A



TOP

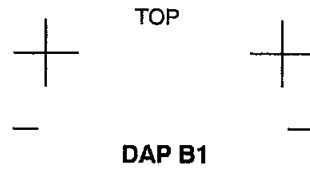
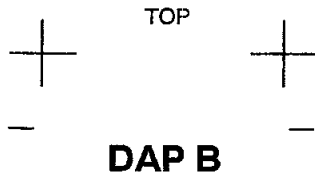
**A15**



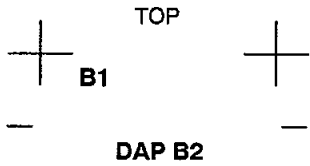
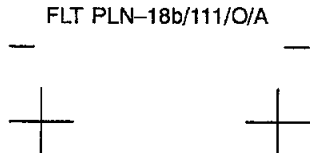
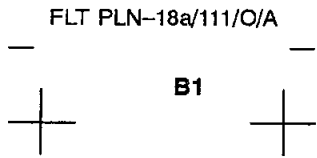
FLT PLN-17b/111/O/A



(reduced copy)

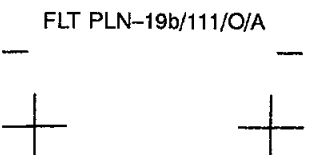
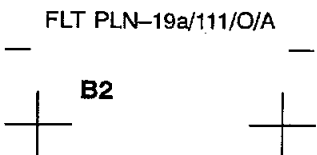


PURPOSE:  
NOM OMS RCS  
BURNS



PURPOSE:  
LOSS OF VERN  
(TAIL ONLY)

2	DAP B 0 1
30/50	0.5 0 0 0
31/51	- 3.0 0
32/52	0.2 0
33/53	0.0 4
34/54	.0 0 0
35/55	ALL
36/56	ALL
37/57	0.1 0
38/58	0.2 0 0
39/59	ALL
40/60	2
41/61	0.0 8
42/62	- 0.0 0
43/63	0.2 0 0 0
44/64	- 1.0 0 0
45/65	.0 2 0
46/66	0.0 0 2
47/67	.0 0 0
48/68	0

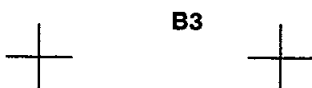


(reduced copy)



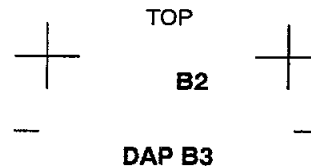
2	DAP B 0 2
30/50	0.2 0 0 0
31/51	- 3.0 0
32/52	0.2 0
33/53	0.0 4
34/54	.0 0 0
35/55	TAIL
36/56	TAIL
37/57	0.0 2
38/58	0.0 7 0
39/59	TAIL
40/60	1
41/61	0.0 8
42/62	- 0.0 0
43/63	0.2 0 0 0
44/64	- 1.0 0 0
45/65	.0 2 0
46/66	0.0 0 2
47/67	.0 0 0
48/68	0

FLT PLN-20a/111/O/A



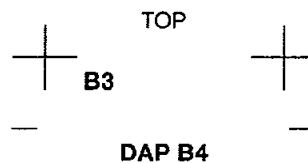
2	DAP B 0 3
30/50	0.2 0 0 0
31/51	- 3.0 0
32/52	0.2 0
33/53	0.0 4
34/54	.0 0 0
35/55	ALL
36/56	ALL
37/57	0.0 2
38/58	0.0 7 0
39/59	ALL
40/60	1
41/61	0.0 8
42/62	- 0.0 0
43/63	0.2 0 0 0
44/64	- 1.0 0 0
45/65	.0 2 0
46/66	0.0 0 2
47/67	.0 0 0
48/68	0

FLT PLN-21a/111/O/A



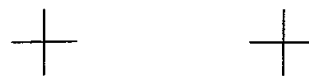
PURPOSE:  
LOSS OF VERN  
(ALL)

FLT PLN-20b/111/O/A



PURPOSE:

FLT PLN-21b/111/O/B



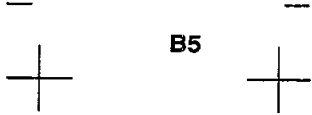
(reduced copy)



**B4**

2/4	DAP B 0 4
30/50	0.2 0 0 0
31/51	- 0.3 0
32/52	0.2 0
33/53	0.0 4
34/54	0.0 0
35/55	TAIL
36/56	TAIL
37/57	0.0 2
38/58	0.1 0 0
39/59	ALL
40/50	2
41/61	0.0 8
42/62	- 0.0 0
43/63	0.0 0 8 0
44/64	- 0.1 0 0
45/65	0.1 0
46/66	0.0 0 2
47/67	0.0 0
48/68	0

FLT PLN-22a/111/O/A



**B5**



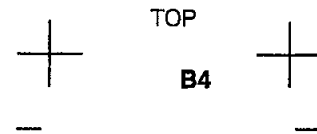
**B5**

2	DAP B 0 5
30/50	0.2 0 0 0
31/51	- 3.0 0
32/52	0.2 0
33/53	0.0 4
34/54	0.0 0
35/55	TAIL
36/56	TAIL
37/57	0.0 2
38/58	0.2 0 0
39/59	ALL
40/60	2
41/61	0.0 8
42/62	- 0.0 0
43/63	0.0 1 6 0
44/64	- 0.0 3 3
45/65	0.2 0
46/66	0.0 0 2
47/67	0.0 0
48/68	0

FLT PLN-23a/111/O/A



**B6**

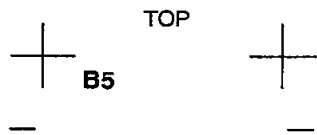


**B4**

**DAP B5**

PURPOSE:  
COAS/HUD CAL

FLT PLN-22b/111/O/A



**B5**

**DAP B6**

PURPOSE:

FLT PLN-23b/111/O/A



(reduced copy)

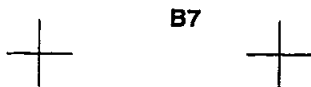


2/4	DAP B 0 6
30/50	0.5 0 0 0
31/51	- 3.0 0
32/52	0.2 0
33/53	0.0 4
34/54	- 0.0 0
35/55	ALL
36/56	ALL
37/57	0.0 2

38/58	0.2 0 0
39/59	ALL
40/60	2
41/61	0.0 8
42/62	- 0.0 0

43/63	0.2 0 0 0
44/64	- 1.0 0 0
45/65	.0 2 0
46/66	0.0 0 2
47/67	.0 0 0
48/68	0

FLT PLN-24a/111/O/A

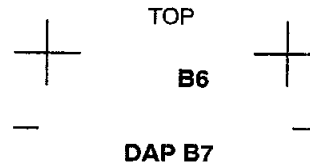
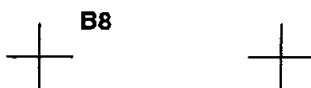


2/4	DAP B 0 7
30/50	0.5 0 0 0
31/51	- 2.0 0
32/52	0.2 0
33/53	0.0 4
34/54	.0 0 0
35/55	ALL
36/56	ALL
37/57	0.0 5

38/58	0.1 0 0
39/59	ALL
40/60	2
41/61	0.0 8
42/62	- 0.0 0

43/63	0.2 0 0 0
44/64	- 1.0 0 0
45/65	.0 2 0
46/66	0.0 0 2
47/67	.0 0 0
48/68	0

FLT PLN-25a/111/O/A



DAP B7

PURPOSE:  
RENDEZVOUS

FLT PLN-24b/111/O/A



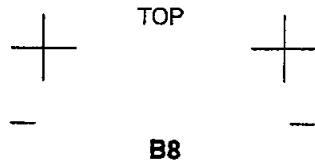
DAP B8

PURPOSE:  
TERMINAL PHASE

FLT PLN-25b/111/O/A

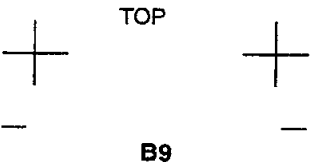
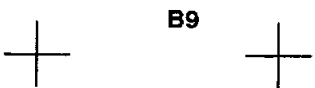


(reduced copy)



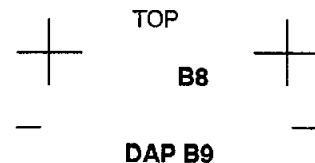
2/4	DAP B 0 8
30/50	<u>0.0 5 0 0</u>
31/51	<u>- 2.0 0</u>
32/52	<u>0.2 0</u>
33/53	<u>0.0 4</u>
34/54	<u>.0 0 0</u>
35/55	ALL
36/56	ALL
37/57	<u>0.0 5</u>
38/58	<u>0.1 0 0</u>
39/59	ALL
40/60	2
41/61	<u>0.0 8</u>
42/62	<u>0.0 0</u>
43/63	<u>0.0 5 0 0</u>
44/64	<u>- 1.0 0 0</u>
45/65	<u>.0 2 0</u>
46/66	<u>0.0 0 2</u>
47/67	<u>.0 0 0</u>
48/68	0

FLT PLN-26a/111/O/A



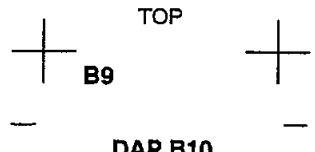
2/4	DAP B 0 9
30/50	<u>0.1 3 0 0</u>
31/51	<u>- 1.0 0</u>
32/52	<u>0.1 0</u>
33/53	<u>0.0 4</u>
34/54	<u>.0 0 0</u>
35/55	TAIL
36/56	TAIL
37/57	<u>0.0 1</u>
38/58	<u>0.1 0 0</u>
39/59	TAIL
40/60	2
41/61	<u>0.0 8</u>
42/62	<u>0.0 0</u>
43/63	<u>0.1 3 0 0</u>
44/64	<u>- 1.0 0 0</u>
45/65	<u>.0 2 0</u>
46/66	<u>0.0 2 0</u>
47/67	<u>.0 0 0</u>
48/68	0

FLT PLN-27a/111/O/A



PURPOSE:  
PROX OPS/  
FLYAROUND

FLT PLN-26b/111/O/A



PURPOSE:  
DOCKING

FLT PLN-27b/111/O/A







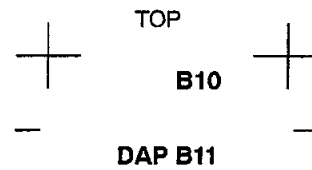
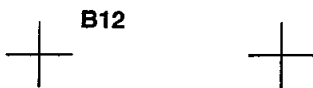
2/4	DAP B 1 0
30/50	<u>0.0 5 0 0</u>
31/51	<u>- 0.5 0</u>
32/52	<u>0.1 0</u>
33/53	<u>0.0 4</u>
34/54	<u>.0 0 0</u>
35/55	TAIL
36/56	TAIL
37/57	<u>0.0 1</u>
38/58	<u>0.1 0 0</u>
39/59	TAIL
40/60	<u>2</u>
41/61	<u>0.0 8</u>
42/62	<u>0.0 0</u>
43/63	<u>0.0 5 0 0</u>
44/64	<u>- 0.5 0 0</u>
45/65	<u>.0 2 0</u>
46/66	<u>0.0 2 0</u>
47/67	<u>.0 0 0</u>
48/68	<u>0</u>

FLT PLN-28a/111/O/A



2/4	DAP B 1 1
30/50	<u>0.5 0 0 0</u>
31/51	<u>3.0 0</u>
32/52	<u>0.2 0</u>
33/53	<u>0.0 4</u>
34/54	<u>.0 0 0</u>
35/55	ALL
36/56	ALL
37/57	<u>0.0 2</u>
38/58	<u>0.2 0 0</u>
39/59	ALL
40/60	<u>2</u>
41/61	<u>0.0 8</u>
42/62	<u>0.0 0</u>
43/63	<u>0.2 0 0 0</u>
44/64	<u>- 1.0 0 0</u>
45/65	<u>.0 2 0</u>
46/66	<u>0.0 0 2</u>
47/67	<u>.0 0 0</u>
48/68	<u>0</u>

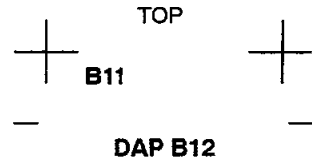
FLT PLN-29a/111/O/A



PURPOSE:

DAP B11

FLT PLN-28b/111/O/A



DAP B12

PURPOSE:

MATED MNVRS &  
HOLD (PRCS)

FLT PLN-29b/111/O/A



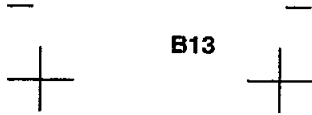
(reduced copy)



**B12**

2/4	DAP B 1 2
30/50	0.1 0 0 0
31/51	5.0 0
32/52	0.2 0
33/53	0.0 4
34/54	0.0 0
35/55	TAIL
36/56	TAIL
37/57	0.0 1
38/58	0.0 7 0
39/59	TAIL
40/60	3
41/61	0.0 8
42/62	1.1 0 4
43/63	0.1 0 0 0
44/64	3.0 0 0
45/65	0.5 0
46/66	0.0 0 2
47/67	0.0 0
48/68	2

FLT PLN-30a/111/O/A



**B13**



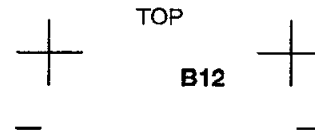
**B13**

2/4	DAP B 1 3
30/50	0.1 0 0 0
31/51	4 0.0 0
32/52	0.2 0
33/53	0.0 4
34/54	0.0 0
35/55	TAIL
36/56	TAIL
37/57	0.0 1
38/58	0.0 7 0
39/59	TAIL
40/60	3
41/61	0.0 8
42/62	1.1 0 4
43/63	0.1 0 0 0
44/64	4 0.0 0 0
45/65	0.5 0
46/66	0.0 0 2
47/67	0.0 0
48/68	3.4

FLT PLN-31a/111/O/A



**B14**



**B12**

**DAP B13**

PURPOSE:

A/L DEPRESS  
RATE DAMPING

FLT PLN-30b/111/O/A



**B13**

**DAP B14**

PURPOSE:

FLT PLN-31b/111/O/A

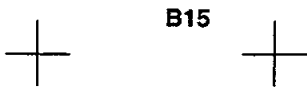


(reduced copy)



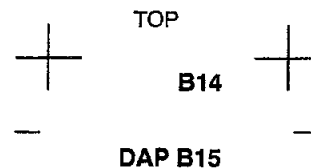
2/4	DAP B 1 4
30/50	0.5 0 0 0
31/51	3.0 0
32/52	0.2 0
33/53	0.0 4
34/54	0.0 0
35/55	ALL
36/56	ALL
37/57	0.0 2
38/58	0.2 0 0
39/59	ALL
40/60	2
41/61	0.0 8
42/62	0.0 0
43/63	0.2 0 0 0
44/64	1.0 0 0
45/65	0.2 0
46/66	0.0 0 2
47/67	0.0 0
48/68	0

FLT PLN-32a/111/O/A

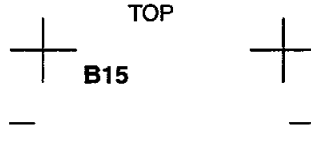
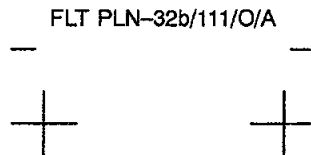


2/4	DAP B 1 5
30/50	0.1 0 0 0
31/51	4.0 0 0
32/52	0.2 0 0
33/53	0.0 0 3
34/54	0.0 0 0
35/55	TAIL
36/56	TAIL
37/57	0.0 1
38/58	0.2 0 0
39/59	TAIL
40/60	2
41/61	0.0 8
42/62	0.0 0
43/63	0.2 0 0 0
44/64	5.0 0 0
45/65	0.5 0
46/66	0.0 0 1
47/67	0.0 0 0
48/68	Z

FLT PLN-33a/111/O/A



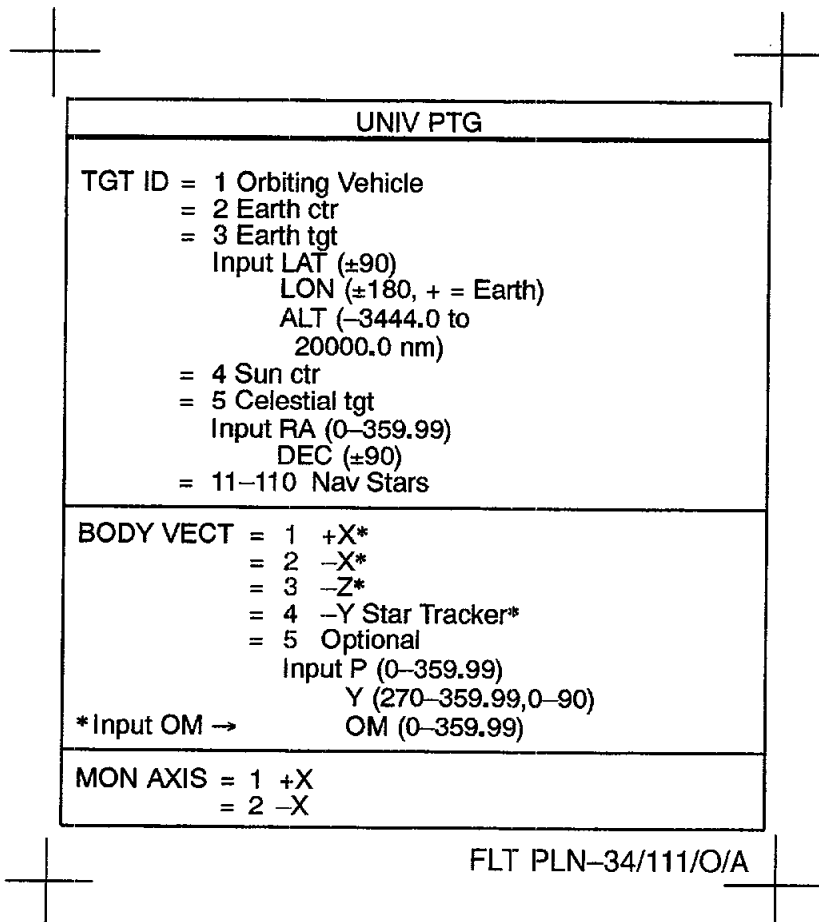
PURPOSE:



FLT PLN-33b/111/O/A



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FLT PLN-34/111/O/A is mounted on the back of the DAP Book

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FLIGHT DATA FILE  
Distribution  
111 FLT PLN FS FIN

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AP/LEAD PAO  
CB/CHIEF, ASTRONAUT OFF.  
CB/FLIGHT CREW (7)  
DAS/LEAD ISS FD (4)  
DAS/LEAD STS FD (4)  
DAS2/ACTION CENTER  
DF22/LEAD DPS (3)  
DF23/LEAD CATO (3)  
DF24/INCO FDF REP (4)  
DF25/LEAD ODIN (3)  
DF52/LEAD MMACS (3)  
DF53/LEAD OSO (3)  
DF62/LEAD GNC (3)  
DF63/LEAD PROP (3)  
DF64/ADCO (3)  
DF73/LEAD EGIL (3)  
DF74/PHALCON LIBRARY (5)  
DF82/LEAD EECOM (3)  
DF83/LEAD ECLSS (3)  
DF84/LEAD THOR (3)  
DM3/LEAD RNDZ (3)  
DM3/LEAD TOPO (3)  
DM32/LEAD FDO (3)  
DO13/HSG-H LIBRARY (3)  
DO13/HSG-M LIBRARY (2)  
DO13/HSG-MTLO  
DO13/MSR LIBRARY (2)  
DO13/TTI LIBRARY (2)  
DO35/FULLER, Y.L.  
DO353/FDF MNGR/RESERVE (15)  
DO4/FAO TEAM (25)  
DO4/LEAD FAO (3)  
DO4/LEAD OPS PLANNER (6)  
DO4/POINTING (3)  
DO4/SHUTTLE FLT PLANNING (3)  
DO44/HAYHURST, R.  
DOS/LEAD ACO/PLO (15)  
DO54/CARROLL, R.  
DT32/TEAM LEAD  
DT34/CONTROL PROP (2)  
DT35/DPS/NAV LIBRARY (2)  
DT36/SHUTTLE SYSTEMS

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DT37A/PAYLOAD TRAINING GROUP (5)  
DX22/LEAD PDRS (4)  
DX22/LEAD ROBO (3)  
DX25/RMS TRAINING GROUP (3)  
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DX34/PHOTO/TV  
GP23/STIC (3)  
MER/30 LIBRARY  
MT3/IPT  
NC62/MORAN, S.  
OM2/CONSOLE SUPPORT (2)  
OV/LEAD ISS GC  
OV/LEAD SHUTTLE GC  
SD2/SURGEON (3)  
SK-KI/LEE, L. (2)  
ZR1/USAF TECHNICAL LIBRARY (3)

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XA-E1/GRINTER, K.

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Total 213  
(04/24/02 - FERNANCA)

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